

## SEQUENCE LISTING

- <110> MANNING, GERARD SUDARSANAM, SUCHA
- <120> METHOD FOR SELECTIVELY INHIBITING FUNGAL GROWTH
- <130> 034536/0323
- <140> 10/618,581
- <141> 2003-07-15
- <150> 60/395,624
- <151> 2002-07-15
- <160> 42
- <170> PatentIn Ver. 2.1
- <210> 1
- <211> 1064
- <212> PRT
- <213> Saccharomyces cerevisiae
- <400> 1
- Met Asp Asp Tyr His Val Asn Thr Ala Phe Ser Met Gly Arg Gly Asn 1 5 10 15
- Gln Gln Asp Asp Gly Asn Ser Glu Ser Asn Ser Met His Thr Gln Pro 20 25 30
- Ser Thr Met Ala Pro Ala Thr Leu Arg Met Met Gly Lys Ser Pro Gln
  35 40 45
- Gln Gln Gln Gln Asn Thr Pro Leu Met Pro Pro Ala Asp Ile Lys
  50 55 60
- Tyr Ala Asn Asn Gly Asn Ser His Gln Ala Glu Gln Lys Glu Arg Gln 65 70 75 80
- Val Glu Leu Glu Gly Lys Ser Arg Glu Asn Ala Pro Lys Pro Asn Thr 85 90 95
- Thr Ser Gln Ser Arg Val Ser Ser Ser Gln Gly Met Pro Lys Gln Phe
  100 105 110
- His Arg Lys Ser Leu Gly Asp Trp Glu Phe Val Glu Thr Val Gly Ala 115 120 125
- Gly Ser Met Gly Lys Val Lys Leu Ala Lys His Arg Tyr Thr Asn Glu 130 \$135\$ 140
- Val Cys Ala Val Lys Ile Val Asn Arg Ala Thr Lys Ala Phe Leu His 145 150 155 160
- Lys Glu Gln Met Leu Pro Pro Pro Lys Asn Glu Gln Asp Val Leu Glu
  165 170 175

- Arg Gln Lys Leu Glu Lys Glu Ile Ser Arg Asp Lys Arg Thr Ile 180 185 190
- Arg Glu Ala Ser Leu Gly Gln Ile Leu Tyr His Pro His Ile Cys Arg 195 200 205
- Leu Phe Glu Met Cys Thr Leu Ser Asn His Phe Tyr Met Leu Phe Glu 210 215 220
- Tyr Val Ser Gly Gly Gln Leu Leu Asp Tyr Ile Ile Gln His Gly Ser 225 230 235 240
- Ile Arg Glu His Gln Ala Arg Lys Phe Ala Arg Gly Ile Ala Ser Ala 245 250 255
- Leu Ile Tyr Leu His Ala Asn Asn Ile Val His Arg Asp Leu Lys Ile 260 265 270
- Glu Asn Ile Met Ile Ser Asp Ser Ser Glu Ile Lys Ile Ile Asp Phe 275 280 285
- Gly Leu Ser Asn Ile Tyr Asp Ser Arg Lys Gln Leu His Thr Phe Cys 290 295 300
- Gly Ser Leu Tyr Phe Ala Ala Pro Glu Leu Leu Lys Ala Asn Pro Tyr 305 310 315 320
- Thr Gly Pro Glu Val Asp Val Trp Ser Phe Gly Val Val Leu Phe Val 325 330 335
- Leu Val Cys Gly Lys Val Pro Phe Asp Asp Glu Asn Ser Ser Val Leu 340 345 350
- His Glu Lys Ile Lys Gln Gly Lys Val Glu Tyr Pro Gln His Leu Ser 355 360 365
- Ile Glu Val Ile Ser Leu Leu Ser Lys Met Leu Val Val Asp Pro Lys 370 375 380
- Arg Arg Ala Thr Leu Lys Gln Val Val Glu His His Trp Met Val Arg 385 390 395 400
- Gly Phe Asn Gly Pro Pro Pro Ser Tyr Leu Pro Lys Arg Val Pro Leu
  405 410 415
- Thr Ile Glu Met Leu Asp Ile Asn Val Leu Lys Glu Met Tyr Arg Leu 420 425 430
- Glu Phe Ile Asp Asp Val Glu Glu Thr Arg Ser Val Leu Val Ser Ile 435 440 445
- Ile Thr Asp Pro Thr Tyr Val Leu Leu Ser Arg Gln Tyr Trp Thr Leu 450 455 460
- Ala Ala Lys Met Asn Ala Glu Ser Ser Asp Asn Gly Asn Ala Pro Asn 465 470 . 475 480

- Ile Thr Glu Ser Phe Glu Asp Pro Thr Arg Ala Tyr His Pro Met Ile 485 490 495
- Ser Ile Tyr Tyr Leu Thr Ser Glu Met Leu Asp Arg Lys His Ala Lys
  500 505 510
- Ile Arg Asn Gln Gln Gln Arg Gln Ser His Glu Asn Ile Glu Lys Leu 515 520 525
- Ser Glu Ile Pro Glu Ser Val Lys Gln Arg Asp Val Glu Val Asn Thr 530 540
- Thr Ala Met Lys Ser Glu Pro Glu Ala Thr Leu Ala Thr Lys Asp Thr 545 550 560
- Ser Val Pro Phe Thr Pro Lys Asn Ser Asp Gly Thr Glu Pro Pro Leu
  565 570 575
- His Val Leu Ile Pro Pro Arg Leu Ala Met Pro Glu Gln Ala His Thr 580 585 590
- Ser Pro Thr Ser Arg Lys Ser Ser Asp Asn Gln Arg Arg Glu Met Glu 595 600 605
- Tyr Ala Leu Ser Pro Thr Pro Gln Gly Asn Asp Tyr Gln Gln Phe Arg 610 615 620
- Val Pro Ser Thr Thr Gly Asp Pro Ser Glu Lys Ala Lys Phe Gly Asn 625 630 635 640
- Ile Phe Arg Lys Leu Ser Gln Arg Arg Lys Lys Thr Ile Glu Gln Thr 645 650 655
- Ser Val Asn Ser Asn Asn Ser Ile Asn Lys Pro Val Gln Lys Thr His
  660 665 670
- Ser Arg Ala Val Ser Asp Phe Val Pro Gly Phe Ala Lys Pro Ser Tyr 675 680 685
- Asp Ser Asn Tyr Thr Met Asn Glu Pro Val Lys Thr Asn Asp Ser Arg 690 695 700
- Gly Gly Asn Lys Gly Asp Phe Pro Ala Leu Pro Ala Asp Ala Glu Asn 705 710 715 720
- Met Val Glu Lys Gln Arg Glu Lys Gln Ile Glu Glu Asp Ile Met Lys 725 730 735
- Leu His Asp Ile Asn Lys Gln Asn Asn Glu Val Ala Lys Gly Ser Gly 740 745 750
- Arg Glu Ala Tyr Ala Ala Gln Lys Phe Glu Gly Ser Asp Asp Glu
  755 760 765
- Asn His Pro Leu Pro Pro Leu Asn Val Ala Lys Gly Arg Lys Leu His
  770 780

- Pro Ser Ala Arg Ala Lys Ser Val Gly His Ala Arg Arg Glu Ser Leu 785 790 795 800
- Lys Tyr Met Arg Pro Pro Met Pro Ser Ser Ala Tyr Pro Gln Gln Glu 805 810 815
- Leu Ile Asp Thr Gly Phe Leu Glu Ser Ser Asp Asp Asn Lys Ser Asp 820 825 830
- Ser Leu Gly Asn Val Thr Ser Gln Thr Asn Asp Ser Val Ser Val His 835 840 845
- Ser Val Asn Ala His Ile Asn Ser Pro Ser Val Glu Lys Glu Leu Thr 850 860
- Asp Glu Glu Ile Leu Gln Glu Ala Ser Arg Ala Pro Ala Gly Ser Met 865 870 875 880
- Pro Ser Ile Asp Phe Pro Arg Ser Leu Phe Leu Lys Gly Phe Phe Ser 885 890 895
- Val Gln Thr Thr Ser Ser Lys Pro Leu Pro Ile Val Arg Tyr Lys Ile 900 905 910
- Met Phe Val Leu Arg Lys Met Asn Ile Glu Phe Lys Glu Val Lys Gly 915 920 925
- Gly Phe Val Cys Met Gln Arg Phe Ser Ser Asn Asn Val Ala Ala Lys 930 935 940
- Arg Glu Gly Thr Pro Arg Ser Ile Met Pro Leu Ser His His Glu Ser 945 950 955 960
- Ile Arg Arg Gln Gly Ser Asn Lys Tyr Ser Pro Ser Ser Pro Leu Thr 965 970 975
- Thr Asn Ser Ile His Gln Arg Lys Thr Ser Ile Thr Glu Thr Tyr Gly 980 985 990
- Asp Asp Lys His Ser Gly Thr Ser Leu Glu Asn Ile His Gln Gln Gly 995 1000 1005
- Asp Gly Ser Glu Gly Met Thr Thr Glu Lys Glu Pro Ile Lys Phe 1010 1015 1020
- Glu Ile His Ile Val Lys Val Arg Ile Val Gly Leu Ala Gly Val His 1025 1030 1035 1040
- Phe Lys Lys Ile Ser Gly Asn Thr Trp Leu Tyr Lys Glu Leu Ala Ser 1045 1050 1055

Ser Ile Leu Lys Glu Leu Lys Leu 1060

- <210> 2
- <211> 1147
- <212> PRT
- <213> Saccharomyces cerevisiae
- <400> 2
- Met Pro Asn Pro Asn Thr Ala Asp Tyr Leu Val Asn Pro Asn Phe Arg 1 5 10 15
- Thr Ser Lys Gly Gly Ser Leu Ser Pro Thr Pro Glu Ala Phe Asn Asp 20 25 30
- Thr Arg Val Ala Ala Pro Ala Thr Leu Arg Met Met Gly Lys Gln Ser
- Gly Pro Arg Asn Asp Gln Gln Gln Ala Pro Leu Met Pro Pro Ala Asp
  50 55 60
- Ile Lys Gln Gly Lys Glu Gln Ala Ala Gln Arg Gln Asn Asp Ala Ser 65 70 75 80
- Arg Pro Asn Gly Ala Val Glu Leu Arg Gln Phe His Arg Arg Ser Leu 85 90 95
- Gly Asp Trp Glu Phe Leu Glu Thr Val Gly Ala Gly Ser Met Gly Lys
  100 105 110
- Val Lys Leu Val Lys His Arg Gln Thr Lys Glu Ile Cys Val Ile Lys 115 120 125
- Ile Val Asn Arg Ala Ser Lys Ala Tyr Leu His Lys Gln His Ser Leu 130 135 140
- Pro Ser Pro Lys Asn Glu Ser Glu Ile Leu Glu Arg Gln Lys Arg Leu 145 150 155 160
- Glu Lys Glu Ile Ala Arg Asp Lys Arg Thr Val Arg Glu Ala Ser Leu 165 170 175
- Gly Gln Ile Leu Tyr His Pro His Ile Cys Arg Leu Phe Glu Met Cys 180 185 190
- Thr Met Ser Asn His Phe Tyr Met Leu Phe Glu Tyr Val Ser Gly Gly 195 200 205
- Gln Leu Leu Asp Tyr Ile Ile Gln His Gly Ser Leu Lys Glu His His 210 215 220
- Ala Arg Lys Phe Ala Arg Gly Ile Ala Ser Ala Leu Gln Tyr Leu His 225 230 235 240
- Ala Asn Asn Ile Val His Arg Asp Leu Lys Ile Glu Asn Ile Met Ile 245 250 255
- Ser Ser Ser Gly Glu Ile Lys Ile Ile Asp Phe Gly Leu Ser Asn Ile 260 265 270

Phe Asp Tyr Arg Lys Gln Leu His Thr Phe Cys Gly Ser Leu Tyr Phe 275 280 285

Ala Ala Pro Glu Leu Leu Lys Ala Gln Pro Tyr Thr Gly Pro Glu Val 290 295 300

Asp Ile Trp Ser Phe Gly Ile Val Leu Tyr Val Leu Val Cys Gly Lys 305 310 315 320

Val Pro Phe Asp Asp Glu Asn Ser Ser Ile Leu His Glu Lys Ile Lys 325 330 335

Lys Gly Lys Val Asp Tyr Pro Ser His Leu Ser Ile Glu Val Ile Ser 340 345 350

Leu Leu Thr Arg Met Ile Val Val Asp Pro Leu Arg Arg Ala Thr Leu 355 360 365

Lys Asn Val Val Glu His Pro Trp Met Asn Arg Gly Tyr Asp Phe Lys 370 375 380

Ala Pro Ser Tyr Val Pro Asn Arg Val Pro Leu Thr Pro Glu Met Ile 385 390 395 400

Asp Ser Gln Val Leu Lys Glu Met Tyr Arg Leu Glu Phe Ile Asp Asp 405 410 415

Ile Glu Asp Thr Arg Arg Ser Leu Ile Arg Leu Val Thr Glu Lys Glu 420 425 430

Tyr Ile Gln Leu Ser Gln Glu Tyr Trp Asp Lys Leu Ser Asn Ala Lys 435 440 445

Gly Leu Ser Ser Ser Leu Asn Asn Asn Tyr Leu Asn Ser Thr Ala Gln 450 455 460

Gln Thr Leu Ile Gln Asn His Ile Thr Ser Asn Pro Ser Gln Ser Gly
465 470 475 480

Tyr Asn Glu Pro Asp Ser Asn Phe Glu Asp Pro Thr Leu Ala Tyr His 485 490 495

Pro Leu Leu Ser Ile Tyr His Leu Val Ser Glu Met Val Ala Arg Lys 500 505 510

Leu Ala Lys Leu Gln Arg Arg Gln Ala Leu Ala Leu Gln Ala Gln Ala 515 520 525

Gln Gln Arg Gln Gln Gln Gln Val Ala Leu Gly Thr Lys Val Ala 530 540

Leu Asn Asn Asn Ser Pro Asp Ile Met Thr Lys Met Arg Ser Pro Gln 545 550 560

Lys Glu Val Val Pro Asn Pro Gly Ile Phe Gln Val Pro Ala Ile Gly
565 570 575

Thr Ser Gly Thr Ser Asn Asn Thr Asn Thr Ser Asn Lys Pro Pro Leu 580 585 590

His Val Met Val Pro Pro Lys Leu Thr Ile Pro Glu Gln Ala His Thr 595 600 605

Ser Pro Thr Ser Arg Lys Ser Ser Asp Ile His Thr Glu Leu Asn Gly 610 615 620

Val Leu Lys Ser Thr Pro Val Pro Val Ser Gly Glu Tyr Gln Gln Arg 625 630 635 640

Ser Ala Ser Pro Val Val Gly Glu His Gln Glu Lys Asn Thr Ile Gly
645 650 655

Gly Ile Phe Arg Arg Ile Ser Gln Ser Gly Gln Ser Gln His Pro Thr 660 665 670

Arg Gln Gln Glu Pro Leu Pro Glu Arg Glu Pro Pro Thr Tyr Met Ser 675 680 685

Lys Ser Asn Glu Ile Ser Ile Lys Val Pro Lys Ser His Ser Arg Thr 690 695 700

Ile Ser Asp Tyr Ile Pro Ser Ala Arg Arg Tyr Pro Ser Tyr Val Pro 705 710 715 720

Asn Ser Val Asp Val Lys Gln Lys Pro Ala Lys Asn Thr Thr Ile Ala 725 730 735

Pro Pro Ile Arg Ser Val Ser Gln Lys Gln Asn Ser Asp Leu Pro Ala
740 745 750

Leu Pro Gln Asn Ala Glu Leu Ile Val Gln Lys Gln Arg Gln Lys Leu 755 760 765

Leu Gln Glu Asn Leu Asp Lys Leu Gln Île Asn Asp Asn Asn Asn 770 775 780

Asn Val Asn Ala Val Val Asp Gly Ile Asn Asn Asp Asn Ser Asp His
785 790 795 800

Tyr Leu Ser Val Pro Lys Gly Arg Lys Leu His Pro Ser Ala Arg Ala 805 810 815

Lys Ser Val Gly His Ala Arg Arg Glu Ser Leu Lys Phe Thr Arg Pro 820 825 830

Pro Ile Pro Ala Ala Leu Pro Pro Ser Asp Met Thr Asn Asp Asn Gly 835 840

Phe Leu Gly Glu Ala Asn Lys Glu Arg Tyr Asn Pro Val Ser Ser Asn 850 855 860

Phe Ser Thr Val Pro Glu Asp Ser Thr Thr Tyr Ser Asn Asp Thr Asn 865 870 875 880

- Asn Arg Leu Thr Ser Val Tyr Ser Gln Glu Leu Thr Glu Lys Gln Ile 885 890 895
- Leu Glu Glu Ala Ser Lys Ala Pro Pro Gly Ser Met Pro Ser Ile Asp 900 905 910
- Tyr Pro Lys Ser Met Phe Leu Lys Gly Phe Phe Ser Val Gln Thr Thr 915 920 925
- Ser Ser Lys Pro Leu Pro Ile Val Arg His Asn Ile Ile Ser Val Leu 930 935 940
- Thr Arg Met Asn Ile Asp Phe Lys Glu Val Lys Gly Gly Phe Ile Cys 945 950 955 960
- Val Gln Gln Arg Pro Ser Ile Glu Thr Ala Ala Val Pro Val Ile Thr 965 970 975
- Thr Thr Gly Val Gly Leu Asp Ser Gly Lys Ala Met Asp Leu Gln Asn 980 985 990
- Ser Leu Asp Ser Gln Leu Ser Ser Ser Tyr His Ser Thr Ala Ser Ser 995 1000 1005
- Ala Ser Arg Asn Ser Ser Ile Lys Arg Gln Gly Ser Tyr Lys Arg Gly
  1010 1015 1020
- Gln Asn Asn Ile Pro Leu Thr Pro Leu Ala Thr Asn Thr His Gln Arg 1025 1030 1035 1040
- Asn Ser Ser Ile Pro Met Ser Pro Asn Tyr Gly Asn Gln Ser Asn Gly 1045 1050 1055
- Thr Ser Gly Glu Leu Ser Ser Met Ser Leu Asp Tyr Val Gln Gln Gln 1060 1065 1070
- Asp Asp Ile Leu Thr Thr Ser Arg Ala Gln Asn Ile Asn Asn Val Asn 1075 1080 1085
- Gly Gln Thr Glu Gln Thr Asn Thr Ser Gly Ile Lys Glu Arg Pro Pro 1090 1095 1100
- Ile Lys Phe Glu Ile His Ile Val Lys Val Arg Ile Val Gly Leu Ala 1105 1110 1115 1120
- Gly Val His Phe Lys Lys Val Ser Gly Asn Thr Trp Leu Tyr Lys Glu 1125 1130 1135
- Leu Ala Ser Tyr Ile Leu Lys Glu Leu Asn Leu 1140 1145

<210> 3

<211> 423

<212> PRT

<213> Schizosaccharomyces pombe

<400> 3

Met Lys Pro Asn Thr Thr Asn Leu Arg Asn Glu Cys Trp Asp Thr Phe 1 5 10 15

Ser Ile Pro Lys Arg Ser Gln Asn Ile Lys Ile Asn Gln Ser Thr Lys 20 25 30

His Gln Arg Ser Ile Ser Asp Phe Val Gly Thr Ala Gly Pro Gly Arg
35 40 45

Gln Val Gly Asn Trp Ile Ile Lys Lys Thr Ile Gly Ala Gly Ser Met 50 55 60

Gly Lys Val Lys Leu Val Val Asn Ile Leu Thr Gly Glu Lys Ala Ala 65 70 75 80

Leu Lys Met Ile Pro Phe Thr Pro Asn Asn Thr Ser Gln Thr Val Arg
85 90 95

Val Gln Arg Glu Ala Leu Leu Gly Arg Leu Leu Arg His Pro Asn Ile 100 105 110

Cys Arg Val Ile Asp Cys Ile Arg Thr Pro Ala Cys Thr Tyr Ile Leu 115 120 125

Phe Glu Tyr Val Pro Gly Gly Gln Leu Leu Glu Tyr Ile Leu Ala Arg 130 135 140

Gly Lys Leu Asp Glu Asp Leu Ala Arg Ser Phe Ala Met Gln Leu Ile 145 150 155 160

Asn Ala Leu Val Tyr Leu His Lys Asn Phe Ile Val His Arg Asp Leu 165 170 175

Lys Ile Glu Asn Val Leu Leu Thr Gln Asp Ser Arg Gln Val Lys Leu 180 185 190

Ile Asp Phe Gly Leu Ser Asn Phe Tyr Ser Lys Asp Asp Leu Leu Arg 195 200 205

Thr Tyr Cys Gly Ser Leu Tyr Phe Ala Ala Pro Glu Leu Leu Asp Ala 210 215 220

Lys Pro Tyr Ile Gly Pro Glu Val Asp Val Trp Ser Leu Gly Val Val 225 230 235 240

Ile Tyr Val Met Val Cys Gly Arg Val Pro Phe Asp Asp Val Ser Val
245 250 255

Pro Met Leu His Ser Lys Ile Lys Ser Gly Lys Leu Glu Phe Pro Ser 260 265 270

Tyr Ile Ser Glu Asp Cys Cys Ser Leu Ile Ala Ala Met Leu Asn Val 275 280 285

Asn Pro Arg Lys Arg Cys Ser Leu Glu Gln Ala Ala Lys Phe Pro Trp 290 295 300

Leu Lys Lys Asn Ser Phe Cys Leu Tyr Leu Pro Ile Pro Leu Thr Ser 305 310 315 320

Ile Pro Ser Thr Pro Ser Ile Arg Ser His Val Phe Lys Pro Pro Phe 325 330 335

Asn Leu Lys Val Leu Gln Leu Leu His Glu His Gly Leu Ala Ser Ile 340 345 350

Pro Glu Leu Lys His Glu Leu Tyr Met Ala Tyr Ile Glu Arg Lys Thr 355 360 365

Thr Ser Leu Val Cys Leu Tyr Leu Leu Gly Val Glu Ser Leu Ala Pro 370 375 380

Ala Leu Arg Ile Pro Thr Ala Leu Pro Pro Val Tyr Ser Arg His Gln 385 390 395 400

Arg His His Ser Glu Ile Leu Gly Ala Met Asp Leu Thr Glu Lys Ile 405 410 415

Thr Ala Met Gln Cys Pro Pro 420

<210> 4

<211> 891

<212> PRT

<213> Schizosaccharomyces pombe

<400> 4

Met Glu Tyr Arg Thr Asn Asn Val Pro Val Gly Asn Glu Thr Lys Ser 1 5 10 15

Ala Ala Leu Asn Ala Leu Pro Lys Ile Lys Ile Ser Asp Ser Pro Asn 20 25 30

Arg His His Asn Leu Val Asp Ala Phe Met Gln Ser Pro Ser Tyr Ser 35 40 45

Thr Gln Pro Lys Ser Ala Val Glu Pro Leu Gly Leu Ser Phe Ser Pro 50 55 60

Gly Tyr Ile Ser Pro Ser Ser Gln Ser Pro His His Gly Pro Val Arg
65 70 75 80

Ser Pro Ser Ser Arg Lys Pro Leu Pro Ala Ser Pro Ser Arg Thr Arg 85 90 95

Asp His Ser Leu Arg Val Pro Val Ser Gly His Ser Tyr Ser Ala Asp
100 105 110

Glu Lys Pro Arg Glu Arg Arg Lys Val Ile Gly Asn Tyr Val Leu Gly
115 120 125

Lys Thr Ile Gly Ala Gly Ser Met Gly Lys Val Lys Val Ala His His 130 135 140

- Leu Lys Thr Gly Glu Gln Phe Ala Ile Lys Ile Val Thr Arg Leu His 145 150 155 160
- Pro Asp Ile Thr Lys Ala Lys Ala Ala Ala Ser Ala Glu Ala Thr Lys 165 170 175
- Ala Ala Gln Ser Glu Lys Asn Lys Glu Ile Arg Thr Val Arg Glu Ala 180 185 190
- Ala Leu Ser Thr Leu Leu Arg His Pro Tyr Ile Cys Glu Ala Arg Asp 195 200 205
- Val Tyr Ile Thr Asn Ser His Tyr Tyr Met Val Phe Glu Phe Val Asp
- Gly Gln Met Leu Asp Tyr Ile Ile Ser His Gly Lys Leu Lys Glu 225 230 235 240
- Lys Gln Ala Arg Lys Phe Val Arg Gln Ile Gly Ser Ala Leu Ser Tyr 245 250 255
- Leu His Gln Asn Ser Val Val His Arg Asp Leu Lys Ile Glu Asn Ile 260 265 270
- Leu Ile Ser Lys Thr Gly Asp Ile Lys Ile Ile Asp Phe Gly Leu Ser 275 280 285
- Asn Leu Tyr Arg Arg Gln Ser Arg Leu Arg Thr Phe Cys Gly Ser Leu 290 295 300 .
- Tyr Phe Ala Ala Pro Glu Leu Leu Asn Ala Gln Pro Tyr Ile Gly Pro 305 310 315 320
- Glu Val Asp Val Trp Ser Phe Gly Ile Val Leu Tyr Val Leu Val Cys
- Gly Lys Val Pro Phe Asp Asp Gln Asn Met Ser Ala Leu His Ala Lys 340 345 350
- Ile Lys Lys Gly Thr Val Glu Tyr Pro Ser Tyr Leu Ser Ser Asp Cys 355 360 365
- Lys Gly Leu Leu Ser Arg Met Leu Val Thr Asp Pro Leu Lys Arg Ala 370 375 380
- Thr Leu Glu Glu Val Leu Asn His Pro Trp Met Ile Arg Asn Tyr Glu 385 390 395 400
- Gly Pro Pro Ala Ser Phe Ala Pro Glu Arg Ser Pro Ile Thr Leu Pro
  405 410 415
- Leu Asp Pro Glu Ile Ile Arg Glu Met Asn Gly Phe Asp Phe Gly Pro 420 425 430
- Pro Glu Lys Ile Val Arg Glu Leu Thr Lys Val Ile Ser Ser Glu Ala
  435
  440
  445

- Tyr Gln Ser Leu Ala Lys Thr Gly Phe Tyr Ser Gly Pro Asn Ser Ala 450 455 460
- Asp Lys Lys Ser Phe Phe Glu Phe Arg Ile Arg His Ala Ala His 465 470 475 480
- Asp Ile Glu Asn Pro Ile Leu Pro Ser Leu Ser Met Asn Thr Asp Ile 485 490 495
- Tyr Asp Ala Phe His Pro Leu Ile Ser Ile Tyr Tyr Leu Val Ser Glu 500 505 510
- Arg Arg Val Tyr Glu Lys Gly Gly Asn Trp Asn Arg Ile Ala Lys Thr
- Pro Val Ser Ser Val Pro Ser Ser Pro Val Gln Pro Thr Ser Tyr Asn 530 535 540
- Arg Thr Leu Pro Pro Met Pro Glu Val Val Ala Tyr Lys Gly Asp Glu 545 550 555 560
- Glu Ser Pro Arg Val Ser Arg Asn Thr Ser Leu Ala Arg Arg Lys Pro
  565 570 575
- Leu Pro Asp Thr Glu Ser His Ser Pro Ser Pro Ser Ala Thr Ser Ser 580 585 590
- Ile Lys Lys Asn Pro Ser Ser Ile Phe Arg Arg Phe Ser Ser Arg Arg 595 600 605
- Lys Gln Asn Lys Ser Ser Thr Ser Thr Leu Gln Ile Ser Ala Pro Leu 610 620
- Glu Thr Ser Gln Ser Pro Pro Thr Pro Arg Thr Lys Pro Ser His Lys 625 630 635 640
- Pro Pro Val Ser Tyr Lys Asn Lys Leu Val Thr Gln Ser Ala Ile Gly
  645 650 655
- Arg Ser Thr Ser Val Arg Glu Gly Arg Tyr Ala Gly Ile Ser Ser Gln 660 665 670
- Met Asp Ser Leu Asn Met Asp Ser Thr Gly Pro Ser Ala Ser Asn Met 675 680 685
- Ala Asn Ala Pro Pro Ser Val Arg Asn Asn Arg Val Leu Asn Pro Arg 690 695 700
- Gly Ala Ser Leu Gly His Gly Arg Met Ser Thr Ser Thr Thr Asn Arg
  705 710 715 720
- Gln Lys Gln Ile Leu Asn Glu Thr Met Gly Asn Pro Val Asp Lys Asn 725 730 735
- Ser Thr Ser Pro Ser Lys Ser Thr Asp Lys Leu Asp Pro Ile Lys Pro 740 745 750

Val Phe Leu Lys Gly Leu Phe Ser Val Ser Thr Thr Ser Thr Lys Ser 755 760 765

Thr Glu Ser Ile Gln Arg Asp Leu Ile Arg Val Met Gly Met Leu Asp
770 775 780

Ile Glu Tyr Lys Glu Ile Lys Gly Gly Tyr Ala Cys Leu Tyr Lys Pro 785 790 795 800

Gln Gly Ile Arg Thr Pro Thr Lys Ser Thr Ser Val His Thr Arg Arg 805 810 815

Lys Pro Ser Tyr Gly Ser Asn Ser Thr Thr Asp Ser Tyr Gly Ser Val 820 825 830

Pro Asp Thr Val Pro Leu Asp Asp Asn Gly Glu Ser Pro Ala Ser Asn 835 840 845

Leu Ala Phe Glu Ile Tyr Ile Val Lys Val Pro Ile Leu Ser Leu Arg 850 855 860

Gly Val Ser Phe His Arg Ile Ser Gly Asn Ser Trp Gln Tyr Lys Thr 865 870 875 880

Leu Ala Ser Arg Ile Leu Asn Glu Leu Lys Leu 885 890

<210> 5

<211> 1212

<212> PRT

<213> Candida albicans

<400> 5

Met Asn Asn Gln Asp Pro Asp Ser Gln Tyr His Asn Lys Lys Val Tyr 1 5 10 15

Pro Pro Asn Leu Pro Ser Ile Pro Pro Pro Pro Gln Gln Pro Leu Ser 20 25 30

Gly Arg Pro Ala Thr Pro Arg Met Leu Arg Ser Ile Ser Gly Thr Leu 35 40 45

Lys Ser Lys Thr Glu Leu Ala His Ser Asp Lys Gly Gln Glu Ser Asn 50 55 60

Asn Glu Thr Lys Asn Ser Asn Ser Pro His Tyr Val Pro Asp Thr His 65 70 75 80

Thr Arg Gln Pro Pro Pro Glu Ser Leu Lys Ser Asn Ile Gln Ala Pro 85 90 95

Thr Ala Val His Gly Asn Gln Gln Lys Gly Ser Leu Leu Pro Pro 100 105 110

Ser Ile Pro Asn Pro Asn Thr Met Lys Pro Ala Pro Thr Pro Thr Gly 115 120 125

- Val Asp Gln Pro Pro Ala Lys Gln Lys Pro Ser Pro Ala Pro Lys Gln 130 135 140
- Arg Lys Ser Ile Gly Asp Trp Asn Phe Val Lys Thr Ile Gly Ala Gly
  165 170 175
- Ser Met Gly Lys Val Lys Leu Ala Gln His Asn Ala Thr His Glu Ile 180 185 190
- Cys Ala Val Lys Ile Ile Pro Arg Ala Ala Lys Leu Tyr Gln Arg Ala 195 200 205
- His Ala Asn Asp Pro Pro Gln Thr Thr Gln Glu Ala Ala Gln Arg 210 215 220
- His Lys Glu Phe Glu Lys Glu Val Ala Arg Asp Arg Thr Ile Arg 225 230 235 240
- Glu Gly Ala Leu Gly Arg Leu Leu Tyr His Pro Phe Ile Cys Arg Leu 245 250 255
- Tyr Glu Met Val Pro Met Thr Asn His Tyr Tyr Met Leu Phe Glu Tyr 260 265 270
- Ile Glu Gly Gly Gln Met Leu Asp Tyr Ile Val Ala His Gly Ser Leu 275 280 285
- Lys Glu Arg His Ala Arg Lys Phe Ala Arg Gly Ile Ala Ser Ala Leu 290 295 300
- Asp Tyr Cys His Arg Asn Asn Val Val His Arg Asp Leu Lys Ile Glu 305 310 315 320
- Asn Ile Met Ile Asn Glu Lys Gly Asp Ile Lys Ile Ile Asp Phe Gly 325 330 335
- Leu Ser Asn Leu Tyr Ala Pro Lys Asn Leu Leu Lys Thr Tyr Cys Gly 340 345 350
- Ser Leu Tyr Phe Ala Ala Pro Glu Leu Leu Ser Ala Lys Pro Tyr Ile 355 360 365
- Gly Pro Glu Val Asp Val Trp Ser Phe Gly Val Val Leu Tyr Val Leu 370 375 380
- Val Cys Gly Lys Val Pro Phe Asp Asp Gln Ser Val Ser Val Leu His 385 390 395 400
- Glu Lys Ile Lys Lys Gly Asn Val Glu Tyr Pro Ala Phe Leu Ser Arg 405 410 415
- Glu Cys Val Ser Leu Leu Ser Arg Met Leu Val Val Asp Pro Thr Lys 420 425 430

- Arg Ala Ser Leu Tyr Glu Val Cys Ser His Pro Trp Met Asn Lys Gly
  435 440 445
- Tyr Asp Tyr Lys Val Asn Asn Tyr Leu Pro Arg Glu Pro Leu Arg 450 455 460
- Leu Pro Leu Asp Pro Glu Ile Ile Lys Thr Ile Ala Asn Phe Glu Leu 465 470 475 480
- Gly Thr Val Gln Gly Val Ala Asp Glu Leu Thr Ser Ile Leu Thr Ser 485 490 495
- Val Glu Tyr Gln Met Ser Cys Glu Asn Trp Tyr Lys Ile Thr Glu Thr 500 505 510
- Gly Arg Glu Tyr Ala Ser Ser Gln Asn Ala Gln Ile Leu Pro Asp Pro 515 520 525
- Thr Gly Gly Phe His Pro Leu Val Ser Ile Tyr Tyr Leu Val Asp Glu 530 540
- Met Arg Lys Arg Lys Ala Lys Glu Glu Ala Leu Lys Ala Gln Arg 545 550 555 560
- Arg Ala Gln Val Pro Thr Ile Ala Val Pro Thr Pro Lys Gln Gln Gln 565 570 575
- Gln Gln Gln Pro Gln Pro Ala Gln Pro Gln Pro Gln Pro Glu 580 585 590
- Val Ser Gln Pro Leu Pro Glu Pro Lys Pro Val Pro Pro Glu Glu Ile 595 600 605
- Ile Asn Pro Ala Val Ala Thr Gln Ala Gln Ala Asn Met Thr Ala Pro 610 615 620
- Lys Ile Val Glu Thr Phe Ser Glu Thr Pro Gln Arg Thr Leu Asp Pro 625 630 635 640
- Ser Lys Gln Ser Val Asp Glu Lys Pro Ser Ala Pro Gly Pro Ser Ile 645 650 655
- Ala Val Pro Glu Gln Ala His Thr Thr Ser Val Pro Ser Ser Phe Val 660 665 670
- Lys Thr Gln Thr Ser Ile Asp Glu Asp Gln Leu Ser Ile Pro Glu Gln 675 680 685
- Gln Ser Pro Arg Thr Ser Thr Pro Gln Thr Leu Asp Pro Ala Lys Val 690 695 700
- Val Gly Gly Ser Ser Gly Ser Ala Ile Ser Ala Pro Asn Ala Gly Ser 705 710 715 720
- Gly Ala Gly Phe Asn Ser Leu Leu Arg Arg Leu Ser Ser Lys Lys Tyr
  725 730 735

- Lys Gly Ala Ser Ser Pro Lys Arg Ser Thr Ser Pro Ser Pro Asn Val
- Glu Gly Leu Ser Pro Gln Pro Thr Lys Ala Asp Pro Met Val Arg Arg 755 760 765
- Gly Val Ser Met Lys Val Thr Ala Lys Glu Lys Gln Thr Asn Thr Arg 770 775 780
- Pro Pro Lys Ser Glu Leu Ile Lys Lys Pro Gln His Gly Arg Ser 785 790 795 800
- Ser Ser Thr Ser Asn Lys Met Gln Gly Phe Ile Pro Val Glu Tyr Leu 805 810 815
- Pro Pro Leu Pro Thr Ile Asp Thr Asn Thr Asn Thr Ile Val Ser Asp 820 825 830
- Gly Ala Lys Gln Gln Asn Leu Thr Val Pro Ser Thr Ala Arg His Met 835 840 845
- His Pro Thr Ala Arg Ala Lys Ser Val Gly Gly His Met Arg Lys 850 855 860
- Asp Ser Tyr Gly Arg Val Ser His Gly Ser Gln Asn Pro Leu Pro Pro 865 870 875 880
- Leu Pro Thr Ser Met Ala Ser Gln Asn Ser Gln Glu Val Val Gly Lys 885 890 895
- Asp Thr Ser Glu Gly Phe Phe Asp Asp Val Gln Leu Asp Asp Val Gly
  900 905 910
- Tyr Gln Glu Val Pro Gln Leu Thr Glu Ser Glu Ile Ile Glu Gln Tyr 915 920 925
- Asn Ile Ser Lys Pro Asn Ser Met Pro Ser Ile Glu His Cys Lys Thr 930 935 940
- Leu Phe Leu Lys Gly Phe Phe Ser Val Gln Thr Thr Ser Ala Lys Pro 945 950 955 960
- Leu Pro Val Ile Arg Tyr Asn Ile Ile Asn Val Leu Ser Lys Leu Gly 965 970 975
- Val Lys Phe Gln Glu Val Lys Gly Gly Phe Val Cys Met His Thr Pro 980 985 990
- Ser Val Gln Pro Ser His Ser Asn Glu Leu Asp Glu Glu Asn Lys Leu 995 1000 1005
- Tyr Gly Asp Ala Phe Lys Ser Lys Ser Ser Asp Ser Phe Glu Ala Ala 1010 1015 1020
- Glu Pro Glu Gly Ser Lys Thr Pro Ser Arg Gln Pro Ser Leu Gln Leu 1025 1030 1035 1040

Pro Ser His Thr Pro Thr Thr Pro Ser Gly Pro Lys Ser His Lys Ser 1045 1050 1055

Ser Asn Ser Ile Gly Ser Ile Gly Gly Asn Val Pro Arg Arg Lys Phe 1060 1065 1070

Ser Ile Gly Asn Ala Phe Asn Thr Tyr Arg Lys Lys Asn Gly Ser Gln 1075 1080 1085

Val Met Met Pro Pro Asn Thr Pro Ala Thr Ala Lys Val Ile His Gly 1090 1095 1100

Leu Tyr Asp Asp Asp Asp Lys Glu Arg Asn Gly Glu Asp Asp Asp 1105 1110 1115 1120

Glu Asp Asp Tyr Gly Tyr Asp Asp Ser Ala Asp Ser Leu Asn Gly Tyr 1125 1130 1135

Gly Gly Ser Asp Met Leu Ile Ser Ser Arg Ile Glu Gln Arg Ala 1140 1145 1150

Lys His Gln Arg Thr Val Ser Ser Ser Ser Gln Lys Ala Ser Lys Ser 1155 1160 1165

Pro Leu Lys Phe Glu Ile His Ile Val Lys Val Pro Leu Val Gly Leu 1170 1175 1180

Tyr Gly Val Gln Phe Lys Lys Ile Leu Gly Asn Thr Trp Asn Tyr Lys 1185 1190 1195 1200

Thr Leu Ala Ser Gln Ile Leu Asn Glu Met Asn Leu 1205 1210

<210> 6

<211> 800

<212> PRT

<213> Saccharomyces cerevisiae

<400> 6

Met Ala Ser Val Pro Lys Arg His Thr Tyr Gly Gly Asn Val Val Thr 1 5 10 15

Asp Arg Asp Arg His Ser Leu Gln Arg Asn Asn Glu Ile Leu His Pro 20 25 30

Ile His Lys Asn Gln Arg Lys His Ala Thr Phe Gly Pro Tyr Ile Ile 35 40 45

Gly Ser Thr Leu Gly Glu Gly Glu Phe Gly Lys Val Lys Leu Gly Trp
50 55 60

Thr Lys Ala Ser Ser Ser Asn Glu Val Pro Lys Gln Val Ala Ile Lys 65 70 75 80

Leu Ile Arg Arg Asp Thr Ile Lys Lys Asp Ala Asp Lys Glu Ile Lys
85
90
95

- Ile Tyr Arg Glu Ile Asn Ala Leu Lys His Leu Thr His Pro Asn Ile 100 105 110
- Ile Tyr Leu Glu Glu Val Leu Gln Asn Ser Lys Tyr Ile Gly Ile Val 115 120 125
- Leu Glu Phe Val Ser Gly Glu Phe Tyr Lys Tyr Ile Gln Arg Lys 130 135 140
- Ser Gly Val Asn Tyr Met His Tyr Lys Gly Leu Val His Arg Asp Leu 165 170 175
- Lys Leu Glu Asn Leu Leu Leu Asp Lys His Glu Asn Leu Val Ile Thr
  180 185 190
- Asp Phe Gly Phe Val Asn Glu Phe Phe Glu Asp Asn Glu Leu Met Lys 195 200 205
- Thr Ser Cys Gly Ser Pro Cys Tyr Ala Ala Pro Glu Leu Val Val Ser 210 215 220 .
- Thr Lys Ala Tyr Glu Ala Arg Lys Ala Asp Val Trp Ser Cys Gly Val 225 230 235 240
- Ile Leu Tyr Ala Met Leu Ala Gly Tyr Leu Pro Trp Asp Asp Asp His
  245 250 255
- Glu Asn Pro Thr Gly Asp Asp Ile Ala Arg Leu Tyr Lys Tyr Ile Thr 260 265 270
- Gln Thr Pro Leu Lys Phe Pro Glu Tyr Ile Thr Pro Ile Pro Arg Asp
- Leu Leu Arg Arg Ile Leu Val Pro Asn Pro Arg Arg Arg Ile Asn Leu 290 295 300
- Gln Thr Ile Lys Arg His Val Trp Leu Lys Pro His Glu Ala Phe Leu 305 310 315 320
- Ser Ile Gln Pro Asn Tyr Trp Asp Glu His Leu Gln Lys Glu Arg Pro 325 330 335
- Lys Pro Pro Asn Lys Gly Asp Val Gly Arg His Ser Thr Tyr Ser Ser 340 345 350
- Ser Ala Ser Ser Tyr Ser Lys Ser Arg Asp Arg Asn Ser Leu Ile Ile 355 360 365
- Glu Ser Thr Leu Glu Gln His Arg Met Ser Pro Gln Leu Ala Thr Ser 370 375 380
- Arg Pro Ala Ser Pro Thr Phe Ser Thr Gly Ser Lys Val Val Leu Asn 385 390 395 400

- Asp Thr Lys Asn Asp Met Lys Glu Ser Asn Ile Asn Gly Glu Arg Thr 405 410 415
- Ser Ala Ser Cys Arg Tyr Thr Arg Asp Ser Lys Gly Asn Gly Gln Thr 420 425 430
- Gln Ile Glu Gln Val Ser Ala Arg His Ser Ser Arg Gly Asn Lys His
  435
  440
  445
- Thr Ser Val Ala Gly Leu Val Thr Ile Pro Gly Ser Pro Thr Thr Ala 450 455 460
- Arg Thr Arg Asn Ala Pro Ser Ser Lys Leu Thr Glu His Val Lys Asp 465 470 475 480
- Ser Ser Gln Thr Ser Phe Thr Gln Glu Glu Phe His Arg Ile Gly Asn 485 490 495
- Tyr His Val Pro Arg Ser Arg Pro Arg Pro Thr Ser Tyr Tyr Pro Gly 500 505 510
- Leu Ser Arg Asn Thr Ala Asp Asn Ser Leu Ala Asp Ile Pro Val Asn 515 520 525
- Lys Leu Gly Ser Asn Gly Arg Leu Thr Asp Ala Lys Asp Pro Val Pro 530 535 540
- Leu Asn Ala Ile His Asp Thr Asn Lys Ala Thr Ile Ser Asn Asn Ser 545 550 555 560
- Ile Met Leu Leu Ser Glu Gly Pro Ala Ala Lys Thr Ser Pro Val Asp 565 570 575
- Tyr His Tyr Ala Ile Gly Asp Leu Asn His Gly Asp Lys Pro Ile Thr 580 585 590
- Glu Val Ile Asp Lys Ile Asn Lys Asp Leu Thr His Lys Ala Ala Glu 595 600 605
- Asn Gly Phe Pro Arg Glu Ser Ile Asp Pro Glu Ser Thr Ser Thr Ile 610 615 620
- Leu Val Thr Lys Glu Pro Thr Asn Ser Thr Asp Glu Asp His Val Glu 625 630 635 640
- Ser Gln Leu Glu Asn Val Gly His Ser Ser Asn Lys Ser Asp Ala Ser 645 650 655
- Ser Asp Lys Asp Ser Lys Lys Ile Tyr Glu Lys Lys Arg Phe Ser Phe 660 665 670
- Met Ser Leu Tyr Ser Ser Leu Asn Gly Ser Arg Ser Thr Val Glu Ser 675 680 685
- Arg Thr Ser Lys Gly Asn Ala Pro Pro Val Ser Ser Arg Asn Pro Ser 690 695 700

Gly Gln Ser Asn Arg Ser Asn Ile Lys Ile Thr Gln Gln Gln Pro Arg 705 710 715 720

Asn Leu Ser Asp Arg Val Pro Asn Pro Asp Lys Lys Ile Asn Asp Asn 725 730 735

Arg Ile Arg Asp Asn Ala Pro Ser Tyr Ala Glu Ser Glu Asn Pro Gly
740 745 750

Arg Ser Val Arg Ala Ser Val Met Val Ser Thr Leu Arg Glu Glu Asn 755 760 765

Arg Ser Glu Leu Ser Asn Glu Gly Asn Asn Val Glu Ala Gln Thr Ser

Thr Ala Arg Lys Val Leu Asn Phe Phe Lys Arg Arg Ser Met Arg Val 785 790 795 800

<210> 7

<211> 865

<212> PRT

<213> Saccharomyces cerevisiae

<400> 7

Met Ser Tyr Thr Asn Lys Arg His Thr Tyr Tyr Gly Gly Phe Thr Asn 1 5 10 15

Asp Leu Ser Asp Thr Phe Gln Tyr Pro Gln Arg Thr Asp Glu Gln Arg
20 25 30

Arg Lys His Val Thr Phe Gly Pro Tyr Ile Leu Gly Ser Thr Leu Gly 35 40 45

Glu Gly Glu Phe Gly Lys Val Lys Leu Gly Trp Pro Lys Asn Phe Ser 50 55 60

Asn Ser Ser Asn Ser Thr Phe Asp Phe Pro Lys Gln Val Ala Ile Lys 65 70 75 80

Leu Ile Lys Arg Asp Ser Ile Ser Asn Asp Tyr Arg Lys Glu Val Lys 85 90 95

Ile Tyr Arg Glu Ile Asn Ala Leu Lys His Leu Ser His Pro Asn Ile 100 105 110

Val Lys Leu Glu Glu Val Leu Gln Asn Ser Arg Tyr Ile Gly Ile Val 115 120 125

Leu Glu Tyr Ala Cys Gly Glu Phe Tyr Lys Tyr Ile Gln Lys Lys 130 135 140

Arg Arg Leu Lys Glu Met Asn Ala Cys Arg Leu Phe Ser Gln Leu Ile 145 150 155 160

Ser Gly Val His Tyr Ile His Ser Lys Gly Leu Val His Arg Asp Leu 165 170 175

- Lys Leu Glu Asn Leu Leu Leu Asp Lys Asn Glu Asn Leu Val Ile Thr
  180 185 190
- Asp Phe Gly Phe Val Asn Glu Phe Cys Ser Arg Asn Glu Leu Met Lys 195 200 205
- Thr Ser Cys Gly Ser Pro Cys Tyr Ala Ala Pro Glu Leu Val Ile Ser 210 215 220
- Ala Glu Pro Tyr Glu Ala Arg Lys Ala Asp Ile Trp Ser Cys Gly Val 225 230 235 240
- Ile Leu Tyr Ala Ile Leu Ala Gly Tyr Leu Pro Trp Asp Asp Pro 245 250 255
- Asn Asn Pro Glu Gly Ser Asp Ile Gly Arg Leu Tyr Asn Tyr Ile Asn 260 265 270
- Ser Thr Pro Leu Lys Phe Pro Asp Tyr Ile Leu Pro Ile Pro Arg Asp 275 280 285
- Leu Leu Arg Arg Met Leu Val Ser Asp Pro Lys Lys Arg Ile Asn Leu 290 295 300
- Lys Gln Ile Lys Lys His Glu Trp Leu Lys Pro His Ser Ser Phe Leu 305 310 315 320
- Ser Ile Thr Pro Asp Glu Trp Asp Lys Leu Asn Asn Thr Gln Ser Val
- Phe Arg Leu Ala Lys Pro Arg Arg Tyr Gly Ser Arg Pro Gln Ser 340 345 350
- Ser Cys Ser Thr Ser Ser Leu Gly Ser Arg Ser Asp Lys Arg Asp Ser 355 360 365
- Leu Val Ile Asp Ser Thr Leu Ile Thr Phe Pro Ala Pro Pro Gln Glu 370 375 380
- Ser Gln Asn His Ile Ile Thr Arg Pro Ala Ser Ile Ala Ser Asp Gln 385 390 395 400
- Arg Leu Ser Pro Ile Arg Arg Ser Asn Arg His Asn Arg Ser Asn Ser 405 410 415
- Ala Ala Ser Val Ala Leu Gln Ala Val Val Asn Ala Asp Arg Glu Tyr 420 425 430
- Val Leu Ser His Glu Gln Ser Leu Ser Pro Val Gln Asn Ile Arg Gln 435 440 445
- Thr Thr Gly Asn Met Thr Ala Ser Leu Ser Pro Pro Pro Ala Ile Ser 450 455 460
- Pro Gly Asp Ile Ile Ile Glu Thr Thr Pro Ile Lys Arg Asn Thr Ile 465 470 475 480

- Ser Gly Ser Ser Ile Val Pro Ser Leu Glu Glu Glu Ser Ser Thr Thr 485 490 495
- Met Gln Thr Ser Lys Ile Gln Pro Asn Asn Met Ala Ser Ser Gln Asn 500 505 510
- His Gln Tyr Asn Lys Asn Lys Thr Gln Asn Ser Leu Gln Ser Ala Lys 515 520 525
- Asn Phe Tyr Arg Thr Ser Ser Ser Ser His Thr Lys Pro Arg Pro Thr 530 540
- Ser Tyr His Pro Gly Ser Tyr Thr Thr Pro Pro Tyr Asn Ser Asn Thr
  545 550 560
- Leu Ser Ile Tyr Glu Ile Asn Glu Lys Ala Lys Ser Ser Ala Ser Ser 565 570 575
- Gln Thr Leu Asn Gln Arg Asp Thr Ser Pro Phe Asp Ser Thr Pro Tyr 580 585 590
- Leu Ala Leu Asp Thr Cys Ile Thr Ser Ser Ser Ser Ile Glu Ser Ser 595 600 605
- Pro Lys Leu Ile Thr His Gly Gln Phe Ser Val Ala Lys Pro Ser Val 610 615 620
- Asp Leu Gln Ser Val Ser Gly Asp Leu Ile Lys Tyr Lys Arg Asp Ala 625 630 635 640
- Asp Val Val Thr Arg Ile Tyr Asp Glu Lys Tyr Lys Gln Lys Arg Lys 645 650 655
- Ser Leu Arg Tyr Ser Gly Ile Phe Ser Asp Ile Ser Cys Asp Thr Val 660 665 670
- Thr Glu Glu Ser Asp Glu Leu Arg Pro Pro Glu Ser Pro Leu Gln Gln 675 680 685
- His Glu Gly Gln Glu Ser Ile Asp Lys Ala Lys Thr Glu Asp Thr Ser 690 695 700
- Glu Lys Gly Ser Lys Ser Ser Asn Ile Ala Lys Ala Thr Ala Gln Lys 705 710 715 720
- His Val Asn Asn His Leu Glu Arg Ser Leu Asn Glu Ala Glu Ser Thr 725 730 735
- Lys Lys Arg Phe Ser Phe Leu Ser Leu Tyr Ser Tyr Asp Thr Ser Lys 740 745 750
- Ser Ser Leu Tyr Ser Ser Met Asp Ser Lys Arg Lys Pro Ser Pro Pro 755 760 765
- Ser Gln Arg Arg Pro Lys Lys Asp Asp Ser Tyr Gln Thr Asn Ser Lys 770 785

Asn His Tyr Ile Thr Ala Ser Asn Met Gln Thr Ser His Gln Val Ser 785 790 795 800

Lys Asp Leu Pro Ala Pro Thr Met Val Gln Asn Lys Cys Thr Leu Glu 805 810 815

Thr Lys Lys Ala Val Arg Ser Asn Arg Ser Ser Ile Met Val Ser Glu 820 825 830

Val Asn Lys Ala Ser Val Asp Asn Lys Ala Ala Gln Ser Pro Glu His 835 840 845

Ser Thr Ala Lys Arg Val Leu Gly Phe Phe Lys Arg Arg Ser Met Lys 850 860

Ile 865

<210> 8

<211> 994

<212> PRT

<213> Candida albicans

<400> 8

Met Ser Thr Ile Pro Ser Gln Val Glu Ile Asn Phe Asn Lys Ile His 1 5 10 15

Gln Arg Ser Asn Ser Ser Ser Ser Thr Ser Ser Tyr Arg Ile Pro Ser 20 25 30

Gly Asn Ser Cys Ile Pro Arg Thr Val Glu Met Pro Ser Leu Pro Pro 35 40 45

Thr Ser Thr His His Gln His Gln Gln Met Pro Ser Ser Ser His 50 55 60

Ala His Ile Ala Lys Lys Ile His Arg Glu Val Arg Phe Gly Ala Tyr 65 70 75 80

Ile Leu Gly Ser Thr Leu Gly Glu Gly Glu Phe Gly Lys Val Lys Leu 85 90 95

Gly Trp Arg Lys Asp Gly Lys His Pro Ser Gln Val Ala Ile Lys Leu 100 105 . 110

Ile Lys Arg Ser Thr Ile Thr Lys Asp Ser Asp Ser Glu Ile Lys Ile 115 120 125

His Arg Glu Ile Asn Ser Leu Lys Leu Leu Asn His Pro Asn Ile Val 130 135 140

Glu Tyr Ala Ser Gly Glu Leu Phe Asp Tyr Ile Leu Gln His Lys 165 170 175

- Tyr Leu Lys Glu Asn Val Ala Lys Lys Leu Phe Ala Gln Leu Val Ser 180 185 190
- Gly Val Asp Tyr Met His Ala Lys Gly Leu Ile His Arg Asp Leu Lys 195 200 205
- Leu Glu Asn Leu Leu Leu Asp Lys His Arg Asn Val Ile Ile Ser Asp 210 215 220
- Phe Gly Phe Val Asn Ser Tyr Asn Arg Asp Lys Asn Asp Leu Met Lys 225 230 235 240
- Thr Ser Cys Gly Ser Pro Cys Tyr Ala Ala Pro Glu Leu Val Leu Ser 245 250 255
- Gln Thr Ala Tyr Glu Gly Arg Lys Val Asp Ile Trp Ser Leu Gly Val 260 265 270
- Ile Leu Tyr Ala Met Leu Ala Gly Tyr Leu Pro Phe Asp Asp Pro 275 280 285
- Glu Asn Glu Asp Gly Ser Asp Ile Ile Lys Leu Tyr His Tyr Ile Cys 290 295 300
- Lys Thr Pro Leu Thr Phe Pro Glu Tyr Val Ser Pro Leu Ala Arg Asp 305 310 315 320
- Leu Leu Arg Lys Ile Ile Val Ser Asp Pro Lys Lys Arg Ile Ser Ile 325 330 335
- Asp Asp Ile Arg Asn His Pro Trp Leu Ser Ser His Ala Asn Leu Leu 340 345 350
- Ser Ile Arg Gln Pro Glu Trp Asp Lys Val His Ser Glu Lys Gln Gln 355 360 365
- Pro Ile Ala Val Glu Pro Pro Gln Pro Asn Lys Arg Tyr Ser Met Ile 370 375 380
- Asn Glu Arg Thr Asn Ser Ser Ser Leu Met Ser Pro Ala Pro Arg Val 385 390 395 400
- Thr His Thr Gln Pro Leu Ser Ser His Ala Arg Ser Tyr Ser Ser Thr 405 410 415
- Ser Ile Ser Leu Leu Tyr Ser Ser Pro Ser Ala Thr Pro Ser Met Ala 420 425 430
- Asn Ala Val Thr Asn Gly Glu Gly Ala Thr Thr Thr Thr Asn Gly
  435
  440
  445
- Ser Ile Asn Glu Ser Asn Asp Thr Leu Gln Leu Ser Gly Thr Pro Ser 450 455 460
- Pro Lys Lys Pro Ser Thr Val Ser Pro Val Arg Gly His Gln Lys Ser 465 470 475 480

- Ala Ser Ile Ser Asn Ser Tyr Ser Ser Ala Ser Ile Ala Leu Lys Ala 485 490 495
- Val Val His Glu Glu Asn Arg Leu His Asn His Gln Gln Ser Gln Gln 500 505 510
- Tyr Ile Pro Arg Ser Ser Thr Ile Ser Thr Ile Val Glu Ser Pro Thr 515 520 525
- Lys Ala Asn Thr Ala Thr Glu Thr Glu Thr Thr Asp Gly His Lys Ile 530 540
- Leu Leu Pro Pro Pro Ser Lys Asp Ala Gln Lys Leu Pro His Ala Ala 545 550 560
- Lys Lys Pro Arg Pro Thr Ser Tyr His Pro Ser Ser Met Ser Ser Ala 565 570 575
- Leu Ile His Asn Asn Gln Asn Pro Thr Asp Val Leu Lys Met Pro Ser 580 585 590
- Pro Ile Asn Phe Pro Met Thr Gln Phe Ile Ser Thr Ser Pro Pro Lys
  595 600 605
- Ser Asn Gly Ser Leu Asn Asp Ser Gly Asn Phe Thr Asn Cys Ser Pro 610 615 620
- Lys Ala Thr Ser Arg Arg Asn Ser Val Val Thr His Val His Val Asn 625 630 635 640
- Gly Val Leu Ser Lys Glu Asn Leu Ile His Ser Ser Ser Ser Pro Asp
  645 650 655
- Asn Lys Arg Asn Ser Val Leu Ser Tyr Leu Glu Asp Lys Ile Asp Thr
  660 665 670
- Leu Glu Leu Thr Glu Ser His Ser Pro Ser Lys Asn Thr Phe Glu Glu 675 680 685
- Ile Val Asp Ala Ala Ile Ala Thr Pro Glu Ile Asn Gln Val Pro Val 690 695 700
- Phe Asp Ser Gln Thr Ser Pro Asn Gly Ile Gly Leu Asp Ile Lys His 705 710 715 720
- Lys Glu Phe Asp Glu Thr Ser Leu Val Val Glu Lys Lys Ser Lys Glu 725 730 735
- Thr Val Ser Asp Ser Lys Ser Glu Glu Ser Thr Lys Glu Thr Gln Gln 740 745 750
- Gln Glu Asn Val Val Met Tyr Glu Pro Ile Val Pro Val Glu Glu Tyr 755 760 765
- Ile Lys Lys Pro Glu Glu Val Asn Ser Val Glu Ala Lys Gln Pro Glu 770 780

Glu Val Lys Ser Glu Asp Lys Ser Leu Gln Gly Gln Lys Ser Gln Gln 785 790 795 800

Gln Gln Gln Pro Glu Lys His Ser Ala Asp Ile Gly Lys Thr Lys 805 810 815

Val Asp Leu Lys Lys Ser Ala Ser Gln Lys Lys Lys Val Lys Glu Glu 820 825 830

Ser Ile Lys Lys Gln Lys Asp Val Asp Ser Lys Pro Ile Glu Arg Arg 835 840 845

His Thr Ile Ala Ala Arg Arg His His Asn Asp Glu Asn Lys Glu Asn 850 860

Lys Asp Val Lys Lys Arg Asn Arg Phe Ser Leu Leu Ser Phe Tyr Ser 865 870 875 880

Ser Tyr Asn Ser Ser Asn Ser Asn Val Ser Leu Ala Thr Ser Lys Val 885 890 895

Pro Ser Asn Ser Glu Asn Asn Thr Thr Val Leu Lys Pro Thr Ser Met 900 905 910

Asn Thr Thr Arg Lys Val Leu Glu Pro Ser Asn Glu Thr Asn Ile Met 915 920 925

Arg Lys Glu Thr Lys Gln Thr Asn Ser Asn Gly Ser Thr Thr Ser Lys 930 935 940

Ser Thr Thr Ser Ser Ser Ser Ser Ser Äla Pro Ala Ala Ser Ser Ser 945 950 955 960

Ser Ser Ser Ser Thr Ser Lys Arg Ala Ser Thr Ala Thr Lys Glu Thr 965 970 975

Ser Ala Ala Arg Lys Val Met Asp Phe Phe Lys Arg Arg Ser Val Arg 980 985 990

Val Gly

<210> 9

<211> 629 <212> PRT

<213> Schizosaccharomyces pombe

<400> 9

Met Asn Ala Gln Pro Phe His Asn Asn Thr Ser Asp Val Gln Ser Phe

1 10 15

Gln Asp Ile Ile Ser Asn Ser Tyr Gln Lys Pro Leu Ser Leu Val Asp 20 . 25 30

Ser Thr Asp Arg Ala Leu Pro Asp Ser Ser Leu Ser Ser Leu Ser Arg 35 40 45

- Ser Thr Phe Gln Phe His Lys His His Leu Ser Gly Asn Glu Asn Pro 50 55 60
- Gln Pro Ser Ser Glu Ser Pro Tyr Phe Thr Asn Asn Glu Arg Leu Asn 65 70 75 80
- Ser Ser Ser Phe Pro Gln Ile His Asp Asn Gln Leu Ser Pro Ser Phe
  85 90 95
- Asn Thr Ser Tyr Gln Ala Ile Pro Ser Ser Ser Ser Asn Arg Ser Arg
  100 105 110
- Gly Gly Pro Tyr Thr Pro Ser Ile Arg Asp Asp Ser Leu Leu Ala Leu
  115 120 125
- Leu Ser Phe Ser Ser Asn His Arg Leu His Ser Met Pro Ser Gln Leu 130 135 140
- Gln Pro Phe Asn Asn Ala Ser Ser Tyr Thr Thr Pro Met Ala Pro Phe 145 150 155 160
- Thr Ala Ser Phe Ser Asn Lys Val Ser His Ser Ala Tyr Pro Thr Arg 165 170 175
- Arg Leu Pro Ser Gln Ala Lys Lys Thr Ser Ala Ile Glu Arg Val Pro
  180 185 190
- Val Asn Leu Asn Phe Leu Gln Ser Asp Asn Leu Val Val Gln Ser Ser 195 200 205
- Pro Gln Thr Asn Phe Glu Asn Phe Glu Phe Pro Lys Lys Ile Pro Ser 210 215 220
- Lys Glu Asp Leu Glu Thr Arg Glu Val Leu Leu Leu Pro Pro Gln Thr 225 230 235 240
- Ser Lys Leu Ser Asn Lys Asn Leu Asp Thr Lys Ser Phe Thr Asp Val 245 250 255
- Asn Lys Ile Ser Gln Gln Gly Phe Val Glu Ile Ser Ser Asn Ser Ser 260 265 270
- Lys Val Thr Pro Asn Thr Ser Leu His Gln Ser Phe Gly Ile Ala Ser 275 280 285
- Ser Ser Ser Asn Asn Tyr Met Gln Thr Ser Ser Glu Leu Thr Ser Ser 290 295 300
- Thr Glu Lys Met Asn Gly Ser His Pro Leu Gln Leu Ser Asn Lys Ser 305 310 315 320
- Leu Leu Ser Ile His Leu Met Gln Ser Lys Asn Gln Gly His Val Ser 325 330 335
- Met Thr Gly Ser Asp Lys Leu Ser Ser His Val Gln Ser Glu Thr Glu 340 345 350

Asn Ala Pro Val Ser Lys Pro Ser Lys Pro Asn Thr Leu Thr Glu Asp 355 360 365

Glu Lys Pro Leu Gln Ser Thr Lys Leu Pro Gly Asn Ser Leu Thr Val 370 375 380

Gly Glu Leu Tyr Gln Glu Pro Lys Ser Ile Gln Leu Pro Glu Leu Ser 385 390 395 400

Val Ser Arg Thr Thr Tyr Ser Ala Gln Ser Ser Ser Val Lys Asn Cys 405 410 415

Asn Glu Arg Ile Pro Ser Ala Lys Ala Leu Lys Lys Gln Lys His Leu
420 425 430

Val Pro Glu Asn Lys Ser Lys Leu Gln Tyr Val Trp Gln Lys Lys Glu
435 440 445

Leu Ser Glu Asn Gln Asn Asp Thr Ser Glu Arg Leu Thr Arg Thr Leu 465 470 475 480

Arg Lys Ser Thr Lys Asn Tyr Thr Phe Gly Ser Tyr Ile Leu Gly Arg
485 490 495

Thr Ile Gly Thr Gly Glu Phe Gly Lys Val Lys Leu Gly Trp Pro Leu 500 505 510

Pro Lys Ala Asn Ser Thr Ile His Arg Ser Thr Pro Gln Val Val Ile 515 520 525

Lys Ile Val Leu Ser Thr Lys Gln Asn Cys Gln Thr Ser Arg Leu Met 530 540

Arg Glu Val Ala Ile Leu Lys Gly Leu Gly Asn Asn His Pro His Ile 545 550 555 560

Val Lys Tyr Leu Asp Phe Val Lys Thr Lys His His Phe Gly Ile Val 565 570 575

Leu Asp Tyr Val Asn Gly Gly Glu Leu Phe Asp Tyr Ile Leu Ala Arg 580 585 590

Arg Arg Leu Glu Asp Ser Val Ala Cys Arg Leu Phe Ala Gln Leu Ile 595 600 605

Ser Gly Val Ala Tyr Leu His Ser Arg Gly Val Val His Arg Asp Pro 610 620

Tyr Ser Glu Ser Tyr

<210> 10 <211> 1142 <212> PRT <213> Saccharomyces cerevisiae

<400> 10

Met Ala Ile Asn Gly Asn Ser Ile Pro Ala Ile Lys Asp Asn Thr Ile
1 10 15

Gly Pro Trp Lys Leu Gly Glu Thr Leu Gly Leu Gly Ser Thr Gly Lys 20 25 30

Val Gln Leu Ala Arg Asn Gly Ser Thr Gly Gln Glu Ala Ala Val Lys 35 40 45

Val Ile Ser Lys Ala Val Phe Asn Thr Gly Asn Val Ser Gly Thr Ser 50 55 60

Ile Val Gly Ser Thr Thr Pro Asp Ala Leu Pro Tyr Gly Ile Glu Arg
65 70 75 80

Glu Ile Ile Ile Met Lys Leu Leu Asn His Pro Asn Val Leu Arg Leu 85 90 95

Tyr Asp Val Trp Glu Thr Asn Thr Asp Leu Tyr Leu Val Leu Glu Tyr 100 105 110

Ala Glu Lys Gly Glu Leu Phe Asn Leu Leu Val Glu Arg Gly Pro Leu 115 120 125

Pro Glu His Glu Ala Ile Arg Phe Phe Arg Gln Ile Ile Gly Val 130 135 140

Ser Tyr Cys His Ala Leu Gly Ile Val His Arg Asp Leu Lys Pro Glu 145 150 155 160

Asn Leu Leu Leu Asp His Lys Tyr Asn Ile Lys Ile Ala Asp Phe Gly
165 170 175

Met Ala Ala Leu Glu Thr Glu Gly Lys Leu Leu Glu Thr Ser Cys Gly 180 185 190

Ser Pro His Tyr Ala Ala Pro Glu Ile Val Ser Gly Ile Pro Tyr Gln 195 200 205

Gly Phe Ala Ser Asp Val Trp Ser Cys Gly Val Ile Leu Phe Ala Leu 210 215 220

Leu Thr Gly Arg Leu Pro Phe Asp Glu Glu Asp Gly Asn Ile Arg Thr 225 230 235 240

Leu Leu Lys Val Gln Lys Gly Glu Phe Glu Met Pro Ser Asp Asp 245 250 255

Glu Ile Ser Arg Glu Ala Gln Asp Leu Ile Arg Lys Ile Leu Thr Val 260 265 270

Asp Pro Glu Arg Arg Ile Lys Thr Arg Asp Ile Leu Lys His Pro Leu 275 280 285

- Leu Gln Lys Tyr Pro Ser Ile Arg Asp Ser Lys Ser Ile Arg Gly Leu 290 295 300
- Pro Arg Glu Asp Thr Tyr Leu Thr Pro Leu Ser Glu Ser Asn Ser Ser 305 310 315 320
- Ile Asp Ala Thr Ile Leu Gln Asn Leu Val Ile Leu Trp His Gly Arg
- Asp Pro Glu Gly Ile Lys Glu Lys Leu Arg Glu Pro Gly Ala Asn Ala 340 345 350
- Glu Lys Thr Leu Tyr Ala Leu Leu Tyr Arg Phe Lys Cys Asp Thr Gln
- Lys Glu Leu Ile Lys Gln Gln Gln Val Lys Lys Arg Gln Ser Ile Ser 370 380
- Ser Val Ser Val Ser Pro Ser Lys Lys Val Ser Thr Thr Pro Gln Arg 385 390 395 400
- Arg Arg Asn Arg Glu Ser Leu Ile Ser Val Thr Ser Ser Arg Lys Lys 405 410 415
- Pro Ile Ser Phe Asn Lys Phe Thr Ala Ser Ser Ala Ser Ser Asn 420 425 430
- Leu Thr Thr Pro Gly Ser Ser Lys Arg Leu Ser Lys Asn Phe Ser Ser 435 440 445
- Lys Lys Leu Ser Thr Ile Val Asn Gln Ser Ser Pro Thr Pro Ala 450 455 460
- Ser Arg Asn Lys Arg Ala Ser Val Ile Asn Val Glu Lys Asn Gln Lys 465 470 475 480
- Arg Ala Ser Ile Phe Ser Thr Thr Lys Lys Asn Lys Arg Ser Ser Arg 485 490 495
- Ser Ile Lys Arg Met Ser Leu Ile Pro Ser Met Lys Arg Glu Ser Val 500 505 510
- Thr Thr Lys Leu Met Ser Thr Tyr Ala Lys Leu Ala Glu Asp Asp Asp 515 520 525
- Trp Glu Tyr Ile Glu Lys Glu Thr Lys Arg Thr Ser Ser Asn Phe Ala 530 535 540
- Thr Leu Ile Asp Glu Ile Phe Glu Tyr Glu Lys Tyr Glu Gln Ile Arg 545 550 560
- Lys Glu Lys Glu Glu Leu Glu Arg Lys Val Arg Glu Ala Lys Ala Arg 565 570 575
- Glu Glu Leu Glu Arg Arg Arg Lys Gln Glu Glu Lys Glu Arg Ala 580 585 590

- Arg Lys Leu Leu Glu Lys Glu Asp Leu Lys Arg Lys Gln Glu Glu Leu 595 600 605
- Lys Lys Gln Ile Glu Ile Asp Ile Ser Asp Leu Glu Gln Glu Leu Ser 610 615 620
- Lys His Lys Glu Glu Lys Leu Asp Gly Asn Ile Arg Ser Ile Ser Ala 625 630 635 640
- Pro Met Glu Asn Glu Glu Lys Asn Ile Asn His Leu Glu Val Asp Ile 645 650 655
- Asp Asn Ile Leu Arg Arg Arg Asn Phe Ser Leu Gln Thr Arg Pro Val
- Ser Arg Leu Asp Pro Gly Ile Met Phe Ser Ser Pro Thr Glu Glu Val 675 680 685
- Ser Pro Val Glu Pro Lys Arg Thr Glu Asn Glu Arg Leu Thr Thr Glu 690 695 700
- Lys Lys Ile Leu Glu Thr Ile Arg Arg Ser Lys Phe Leu Gly Ser Ser 705 710 715 720
- Phe Asn Ile Asp Lys Glu Leu Lys Leu Ser Lys Met Glu Tyr Pro Ser 725 730 735
- Ile Ile Ala Pro Gln Arg Leu Ser Glu Glu Arg Val Val Ser Asp Ser 740 745 750
- Asn Asp Gly Tyr Glu Ser Leu Ile Leu Pro Lys Asp Gly Asn Gly Val 755 760 765
- Ser Gln Leu Lys Asp Ser Thr Ala Thr Thr Ala Pro Val Ser Asp Gly 770 780
- Arg Leu Arg Lys Ile Ser Glu Ile Arg Val Pro Gln Phe Thr Arg Lys 785 790 795 800
- Ser Arg His Phe Ser Glu Ser Asn Lys Arg Leu Ser Val Leu Ser Met 805 810 815
- Tyr Ser Thr Lys Glu Ser Phe Thr Asn Leu Val Asp Ile Leu Lys Asn 820 825 830
- Gly Asn Leu Asp Val Asn Asn Gln Gln Ser Gln Arg Ile Pro Thr Pro 835 840 845
- Arg Ser Ala Asp Asp Ser Glu Phe Leu Phe Glu Thr Val Asn Glu Glu 850 855 860
- Ala Glu Tyr Thr Gly Asn Ser Ser Asn Asp Glu Arg Leu Tyr Asp Val 865 870 875 880
- Gly Asp Ser Thr Ile Lys Asp Lys Ser Ala Leu Lys Leu Asn Phe Ala 885 890 895

Asp Arg Phe Asn Gly Ser Asn Glu Ala Lys Gln Thr Asp Asn Leu His
900 905 910

Leu Pro Ile Leu Pro Pro Leu Asn Gly Asp Asn Glu Leu Arg Lys Gln 915 920 925

Asn Ser Gln Glu Gly Asp Gln Ala His Pro Lys Ile Lys Ser Met Ile 930 935 940

Pro Glu Ser Gly Ser Ser His Thr Glu Lys Glu Glu Glu Asn Glu 945 950 955 960

Glu Lys Glu Glu Lys Lys Pro Glu Gln His Lys Gln Glu Glu Asp Gln 965 970 975

Glu Lys Arg Glu Lys Val Val Asp Asp Met Glu Pro Pro Leu Asn Lys 980 985 990

Ser Val Gln Lys Ile Arg Glu Lys Asn Ala Gly Ser Gln Ala Lys Asp 995 1000 1005

His Ser Lys Asp His Leu Lys Glu His Lys Gln Asp Lys Asn Thr Ala 1010 1015 1020

Ile Gly Asn Gly Ser Phe Phe Arg Lys Phe Ser Lys Ser Ser Asp Lys 1025 1030 1035 1040

Thr Met Glu Leu Tyr Ala Lys Ile Ser Ala Lys Gln Leu Phe Asn Gly
1045 1050 1055

Leu Glu Lys Leu Leu Arg Gly Trp Thr Gln Tyr Gly Leu Lys Asn Ile 1060 1065 1070

Lys Ser His Pro Asn Asn Leu Thr Leu Thr Gly Lys Leu Ser Ser Asp 1075 1080 1085

Asn Ile Phe Ser Leu Arg Ser Thr Leu Phe Glu Val Asn Ile Tyr Pro 1090 1095 1100

Arg Gly Lys Met Ser Val Val Gln Phe Lys Lys Val Ser Gly Ser Phe 1105 1110 1115 1120

Lys Ala Val Lys Lys Leu Val Asn Glu Val Glu Asn Val Leu Asn Lys 1125 1130 1135

Glu Gly Val Leu Gln Lys 1140

<210> 11

<211> 1518

<212> PRT

<213> Saccharomyces cerevisiae

<400> 11

Met Thr Gly His Val Ser Lys Thr Ser His Val Pro Lys Gly Arg Pro 1 5 10 15

Ser Ser Leu Ala Lys Lys Ala Ala Lys Arg Ala Met Ala Lys Val Asn 20 25 30

Ser Asn Pro Lys Arg Ala Ser Gly His Leu Glu Arg Val Val Gln Ser 35 40 45

Val Asn Asp Ala Thr Lys Arg Leu Ser Gln Pro Asp Ser Thr Val Ser 50 55 60

Val Ala Thr Lys Ser Ser Lys Arg Lys Ser Arg Asp Thr Val Gly Pro 65 70 75 80

Trp Lys Leu Gly Lys Thr Leu Gly Lys Gly Ser Ser Gly Arg Val Arg
85 90 95

Leu Ala Lys Asn Met Glu Thr Gly Gln Leu Ala Ala Ile Lys Ile Val 100 105 110

Pro Lys Lys Ala Phe Val His Cys Ser Asn Asn Gly Thr Val Pro 115 120 125

Asn Ser Tyr Ser Ser Ser Met Val Thr Ser Asn Val Ser Ser Pro Ser 130 135 140

Ile Ala Ser Arg Glu His Ser Asn His Ser Gln Thr Asn Pro Tyr Gly
145 150 155 160

Ile Glu Arg Glu Ile Val Ile Met Lys Leu Ile Ser His Thr Asn Val 165 170 175

Met Ala Leu Phe Glu Val Trp Glu Asn Lys Ser Glu Leu Tyr Leu Val 180 185 190

Leu Glu Tyr Val Asp Gly Gly Glu Leu Phe Asp Tyr Leu Val Ser Lys 195 200 205

Gly Lys Leu Pro Glu Arg Glu Ala Ile His Tyr Phe Lys Gln Ile Val 210 215 220

Glu Gly Val Ser Tyr Cys His Ser Phe Asn Ile Cys His Arg Asp Leu 225 230 235 240

Lys Pro Glu Asn Leu Leu Leu Asp Lys Lys Asn Arg Arg Ile Lys Ile
245 250 255

Ala Asp Phe Gly Met Ala Ala Leu Glu Leu Pro Asn Lys Leu Leu Lys 260 265 270

Thr Ser Cys Gly Ser Pro His Tyr Ala Ser Pro Glu Ile Val Met Gly
275 280 285

Arg Pro Tyr His Gly Gly Pro Ser Asp Val Trp Ser Cys Gly Ile Val 290 295 300

Leu Phe Ala Leu Leu Thr Gly His Leu Pro Phe Asn Asp Asp Asn Ile 305 310 315 320

- Lys Lys Leu Leu Leu Lys Val Gln Ser Gly Lys Tyr Gln Met Pro Ser 325 330 335
- Asn Leu Ser Ser Glu Ala Arg Asp Leu Ile Ser Lys Ile Leu Val Ile 340 345 350
- Asp Pro Glu Lys Arg Ile Thr Thr Gln Glu Ile Leu Lys His Pro Leu 355 360 365
- Ile Lys Lys Tyr Asp Asp Leu Pro Val Asn Lys Val Leu Arg Lys Met 370 375 380
- Arg Lys Asp Asn Met Ala Arg Gly Lys Ser Asn Ser Asp Leu His Leu 385 390 395 400
- Leu Asn Asn Val Ser Pro Ser Ile Val Thr Leu His Ser Lys Gly Glu 405 410 415
- Ile Asp Glu Ser Ile Leu Arg Ser Leu Gln Ile Leu Trp His Gly Val
  420 425 430
- Ser Arg Glu Leu Ile Thr Ala Lys Leu Leu Gln Lys Pro Met Ser Glu 435 440 445
- Glu Lys Leu Phe Tyr Ser Leu Leu Gln Tyr Lys Gln Arg His Ser 450 455 460
- Ile Ser Leu Ser Ser Ser Ser Glu Asn Lys Lys Ser Ala Thr Glu Ser 465 470 475 480
- Ser Val Asn Glu Pro Arg Ile Glu Tyr Ala Ser Lys Thr Ala Asn Asn 485 490 495
- Thr Gly Leu Arg Ser Glu Asn Asn Asp Val Lys Thr Leu His Ser Leu 500 505 510
- Glu Ile His Ser Glu Asp Thr Ser Thr Val Asn Gln Asn Asn Ala Ile 515 520 525
- Thr Gly Val Asn Thr Glu Ile Asn Ala Pro Val Leu Ala Gln Lys Ser 530 540
- Gln Phe Ser Ile Asn Thr Leu Ser Gln Pro Glu Ser Asp Lys Ala Glu 545 550 555 560
- Ala Glu Ala Val Thr Leu Pro Pro Ala Ile Pro Ile Phe Asn Ala Ser 565 570 575
- Ser Ser Arg Ile Phe Arg Asn Ser Tyr Thr Ser Ile Ser Ser Arg Ser 580 585 590
- Arg Arg Ser Leu Arg Leu Ser Asn Ser Arg Leu Ser Leu Ser Ala Ser 595 600 605
- Thr Ser Arg Glu Thr Val His Asp Asn Glu Met Pro Leu Pro Gln Leu 610 615 620

Pro Lys Ser Pro Ser Arg Tyr Ser Leu Ser Arg Arg Ala Ile His Ala 635 630 Ser Pro Ser Thr Lys Ser Ile His Lys Ser Leu Ser Arg Lys Asn Ile Ala Ala Thr Val Ala Ala Arg Arg Thr Leu Gln Asn Ser Ala Ser Lys Arg Ser Leu Tyr Ser Leu Gln Ser Ile Ser Lys Arg Ser Leu Asn Leu 680 Asn Asp Leu Leu Val Phe Asp Asp Pro Leu Pro Ser Lys Lys Pro Ala 695 Ser Glu Asn Val Asn Lys Ser Glu Pro His Ser Leu Glu Ser Asp Ser Asp Phe Glu Ile Leu Cys Asp Gln Ile Leu Phe Gly Asn Ala Leu Asp Arg Ile Leu Glu Glu Glu Glu Asp Asn Glu Lys Glu Arg Asp Thr Gln 745 Arg Gln Arg Gln Asn Asp Thr Lys Ser Ser Ala Asp Thr Phe Thr Ile Ser Gly Val Ser Thr Asn Lys Glu Asn Glu Gly Pro Glu Tyr Pro Thr Lys Ile Glu Lys Asn Gln Phe Asn Met Ser Tyr Lys Pro Ser Glu Asn 790 795 Met Ser Gly Leu Ser Ser Phe Pro Ile Phe Glu Lys Glu Asn Thr Leu Ser Ser Ser Tyr Leu Glu Glu Gln Lys Pro Lys Arg Ala Ala Leu Ser Asp Ile Thr Asn Ser Phe Asn Lys Met Asn Lys Gln Glu Gly Met Arg Ile Glu Lys Lys Ile Gln Arg Glu Gln Leu Gln Lys Lys Asn Asp Arg 855 860 Pro Ser Pro Leu Lys Pro Ile Gln His Gln Glu Leu Arg Val Asn Ser Leu Pro Asn Asp Gln Gly Lys Pro Ser Leu Ser Leu Asp Pro Arg Arg Asn Ile Ser Gln Pro Val Asn Ser Lys Val Glu Ser Leu Leu Gln Gly 905

Leu Lys Phe Lys Lys Glu Pro Ala Ser His Trp Thr His Glu Arg Gly
915 920 925

- Ser Leu Phe Met Ser Glu His Val Glu Asp Glu Lys Pro Val Lys Ala 930 935 940
- Ser Asp Val Ser Ile Glu Ser Ser Tyr Val Pro Leu Thr Thr Val Ala 945 950 955 960
- Thr Ser Ser Arg Asp Pro Ser Val Leu Ala Glu Ser Ser Thr Ile Gln 965 970 975
- Lys Pro Met Leu Ser Leu Pro Ser Ser Phe Leu Asn Thr Ser Met Thr 980 985 990
- Phe Lys Asn Leu Ser Gln Ile Leu Ala Asp Asp Gly Asp Asp Lys His
  995 1000 1005
- Leu Ser Val Pro Gln Asn Gln Ser Arg Ser Val Ala Met Ser His Pro 1010 1015 1020
- Leu Arg Lys Gln Ser Ala Lys Ile Ser Leu Thr Pro Arg Ser Asn Leu 1025 1030 1035 1040
- Asn Ala Asn Leu Ser Val Lys Arg Asn Gln Gly Ser Pro Gly Ser Tyr 1045 1050 1055
- Leu Ser Asn Asp Leu Asp Gly Ile Ser Asp Met Thr Phe Ala Met Glu 1060 1065 1070
- Ile Pro Thr Asn Thr Phe Thr Ala Gln Ala Ile Gln Leu Met Asn Asn 1075 1080 1085
- Asp Thr Asp Asn Asn Lys Ile Asn Thr Ser Pro Lys Ala Ser Ser Phe 1090 1095 1100
- Thr Lys Glu Lys Val Ile Lys Ser Ala Ala Tyr Ile Ser Lys Glu Lys 1105 1110 1115 1120
- Glu Pro Asp Asn Ser Asp Thr Asn Tyr Ile Pro Asp Tyr Thr Ile Pro
  1125 1130 1135
- Asn Thr Tyr Asp Glu Lys Ala Ile Asn Ile Phe Glu Asp Ala Pro Ser 1140 1145 1150
- Asp Glu Gly Ser Leu Asn Thr Ser Ser Ser Glu Ser Asp Ser Arg Ala 1155 1160 1165
- Ser Val His Arg Lys Ala Val Ser Ile Asp Thr Met Ala Thr Thr Asn 1170 1175 1180
- Val Leu Thr Pro Ala Thr Asn Val Arg Val Ser Leu Tyr Trp Asn Asn 1185 1190 1195 1200
- Asn Ser Ser Gly Ile Pro Arg Glu Thr Thr Glu Glu Ile Leu Ser Lys 1205 1210 1215
- Leu Arg Leu Ser Pro Glu Asn Pro Ser Asn Thr His Met Gln Lys Arg 1220 1225 1230

- Phe Ser Ser Thr Arg Gly Ser Arg Asp Ser Asn Ala Leu Gly Ile Ser 1235 1240 1245
- Gln Ser Leu Gln Ser Met Phe Lys Asp Leu Glu Glu Asp Gln Asp Gly 1250 1260
- His Thr Ser Gln Ala Asp Ile Leu Glu Ser Ser Met Ser Tyr Ser Lys 1265 1270 1275 1280
- Arg Arg Pro Ser Glu Glu Ser Val Asn Pro Lys Gln Arg Val Thr Met 1285 1290 1295
- Leu Phe Asp Glu Glu Glu Glu Ser Lys Lys Val Gly Gly Lys 1300 1305 1310
- Ile Lys Glu Glu His Thr Lys Leu Asp Asn Lys Ile Ser Glu Glu Ser 1315 1320 1325
- Ser Gln Leu Val Leu Pro Val Val Glu Lys Lys Glu Asn Ala Asn Asn 1330 1340
- Thr Glu Asn Asn Tyr Ser Lys Ile Pro Lys Pro Ser Thr Ile Lys Val 1345 1350 1355 1360
- Thr Lys Asp Thr Ala Met Glu Ser Asn Thr Gln Thr His Thr Lys Lys
  1365 1370 1375
- Pro Ile Leu Lys Ser Val Gln Asn Val Glu Val Glu Glu Ala Pro Ser 1380 1385 1390
- Ser Asp Lys Lys Asn Trp Phe Val Lys Leu Phe Gln Asn Phe Ser Ser 1395 1400 1405
- His Asn Asn Ala Thr Lys Ala Ser Lys Asn His Val Thr Asn Ile Ser 1410 1415 1420
- Phe Asp Asp Ala His Met Leu Thr Leu Asn Glu Phe Asn Lys Asn Ser 1425 1430 1435 1440
- Ile Asp Tyr Gln Leu Lys Asn Leu Asp His Lys Phe Gly Arg Lys Val 1445 1450 1455
- Val Glu Tyr Asp Cys Lys Phe Val Lys Gly Asn Phe Lys Phe Lys Ile 1460 1465 1470
- Lys Ile Thr Ser Thr Pro Asn Ala Ser Ser Val Ile Thr Val Lys Lys 1475 1480 1485
- Arg Ser Lys His Ser Asn Thr Ser Ser Asn Lys Ala Phe Glu Lys Phe 1490 1495 1500
- Asn Asp Asp Val Glu Arg Val Ile Arg Asn Ala Gly Arg Ser 1505 1510 1515

<210> 12 <211> 1037 <212> PRT

<213> Saccharomyces cerevisiae

<400> 12

Met Thr Val Ala Asn Thr Glu Thr His Ser Ala Ala Lys Pro Ser Ser 1 10 15

Thr Ile Gly Pro Trp Lys Leu Gly Glu Thr Leu Gly Phe Gly Ser Thr
20 25 30

Gly Lys Val Gln Leu Ala Gln His Glu Arg Thr Gly His Arg Thr Ala
35 40 45

Val Lys Val Ile Ser Lys Ser Ile Phe Asn Asn Gly Asn His Ser 50 55 60

Asn Asp Asp Ser Val Leu Pro Tyr Asn Ile Glu Arg Glu Ile Val Ile 65 70 75 80

Met Lys Leu Ser His Pro Asn Val Leu Ser Leu Tyr Asp Val Trp 85 90 95

Glu Thr Asn Asn Leu Tyr Leu Ile Leu Glu Tyr Ala Glu Lys Gly
100 105 110

Glu Leu Phe Asn Leu Leu Val Asp His Gly Pro Leu Pro Glu Arg Glu
115 120 125

Ala Ile Asn Cys Phe Arg Gln Ile Ile Ile Gly Ile Ser Tyr Cys His 130 135 140

Ala Leu Gly Ile Val His Arg Asp Leu Lys Pro Glu Asn Leu Leu Leu 145 150 155 160

Asp Ser Phe Tyr Asn Ile Lys Ile Ala Asp Phe Gly Met Ala Ala Leu 165 170 175

Gln Thr Asp Ala Asp Leu Leu Glu Thr Ser Cys Gly Ser Pro His Tyr 180 185 190

Ala Ala Pro Glu Ile Val Ser Gly Leu Pro Tyr Glu Gly Phe Ala Ser 195 200 205

Asp Val Trp Ser Cys Gly Val Ile Leu Phe Ala Leu Leu Thr Gly Arg 210 215 220

Leu Pro Phe Asp Glu Glu Asn Gly Asn Val Arg Asp Leu Leu Lys 225 230 235 240

Val Gln Lys Gly Gln Phe Glu Met Pro Asn Asp Thr Glu Ile Ser Arg 245 250 255

Asp Ala Gln Asp Leu Ile Gly Lys Ile Leu Val Val Asp Pro Arg Gln 260 265 270

Arg Ile Lys Ile Arg Asp Ile Leu Ser His Pro Leu Leu Lys Lys Tyr 275 280 285

- Gln Thr Ile Lys Asp Ser Lys Ser Ile Lys Asp Leu Pro Arg Glu Asn 290 295 300
- Thr Tyr Leu Tyr Pro Leu Ala Asp Ser Asn Asn His Thr Ser Ala Ser 305 310 315 320
- Ile Asp Asp Ser Ile Leu Gln Asn Leu Val Val Leu Trp His Gly Arg
- His Ala Asp Asp Ile Val Ser Lys Leu Lys Glu Asn Gly Thr Asn Lys 340 345 350
- Glu Lys Ile Leu Tyr Ala Leu Leu Tyr Arg Phe Lys Leu Asp Ser Val
- Arg Gly Ser Asn Lys Lys Asn Arg Asn Lys Ile Lys Lys Thr Lys Lys 370 375 380
- Asn Lys Arg Ser Ser Thr Leu Ser Ser Ser Ser Ser Leu Leu Leu Asn 385 390 395 400
- Asn Arg Ser Ile Gln Ser Thr Pro Arg Arg Arg Thr Ser Lys Arg His
  405 410 415
- Ser Arg Glu Phe Ser Ser Ser Arg Lys Arg Ser Ser Phe Leu Leu Ser 420 425 430
- Ser Asn Pro Thr Asp Ser Ser Pro Ile Pro Leu Arg Ser Ser Lys Arg 435 440 445
- Ile Thr His Ile Asn Val Ala Ser Ala Asn Thr Gln Ala Thr Pro Ser 450 455 460
- Gly Val Pro Asn Pro His Lys Arg Asn Ser Lys Lys Arg Ser Ser Lys 465 470 475 480
- Arg Leu Ser Tyr Met Pro Asn Thr Lys Arg Ser Ser Leu Thr Ser Lys 485 490 495
- Ser Leu Ser Asn Phe Thr Asn Leu Ile Asp Asp Asp Trp Glu Tyr 500 505 510
- Ile Glu Lys Asp Ala Lys Arg Thr Ser Ser Asn Phe Ala Thr Leu Ile 515 520 525
- Asp Glu Ile Phe Glu Pro Glu Lys Phe Glu Leu Ala Lys Arg Glu Lys 530 535 540
- Ala Glu Leu Gln Arg Lys Val Gln Glu Ala Lys Arg Gln Ser Val Asn 545 550 555 560
- Ala Gln Lys Ile Asn Glu Asp Glu Phe Gly Ser Glu Val Ser Asp Gly 565 570 575
- Met Lys Glu Leu Lys Lys Ile Asn Asp Lys Val Ser Ser Pro Leu Ile 580 585 590

- Asn Tyr Glu Phe Ser Gln Gln Glu Leu Leu Gln Asp Ile Asp Thr Leu 595 600 605
- Leu Thr Asn Arg Tyr Gln Leu Ser Ser Tyr Thr Arg Pro Ile Ser Arg 610 615 620
- Leu Asp Pro Gly Leu Thr Pro Val Thr Glu Thr Leu Pro Asn Asn Leu 625 630 635 640
- Lys Glu Lys Thr Ala Leu Leu Gln Asp Thr Glu Lys Lys Ile Ile Glu 645 650 655
- Thr Ile Arg Arg Ser Lys Phe Leu Gly Ser Leu Leu Asn Val Arg Gly
  660 665 670
- Gly Leu Ser Pro Gly Lys Ser Glu Leu Ala Pro Ile Glu Glu Ser Pro 675 680 685
- Ile Val Ser Thr Thr Pro Leu Ile Tyr Asn Asp Arg Met Glu Pro Arg 690 695 700
- Arg Ile Ser Asp Val Glu Val Pro His Phe Thr Arg Lys Ser Lys His 705 710 715 720
- Phe Thr Thr Ala Asn Asn Arg Arg Ser Val Leu Ser Leu Tyr Ala Lys
  725 730 735
- Asp Ser Ile Lys Asp Leu Asn Glu Phe Leu Ile Lys Glu Asp Pro Asp 740 745 750
- Leu Pro Pro Gln Gly Ser Thr Asp Asn Glu Ser Arg Ser Glu Asp Pro
  755 760 765
- Glu Ile Ala Glu Ser Ile Thr Asp Ser Arg Asn Ile Gln Tyr Asp Glu
  770 780
- Asp Asp Ser Lys Asp Gly Asp Asn Val Asn Asn Asp Asn Ile Leu Ser 785 790 795 800
- Asp Phe Pro Gln Gly Val Gly Ile Ser Gln Glu Tyr Asp Met Lys Asp 805 810 815
- Lys Asn Pro Asn Gln Ser Pro Ile Ser Lys Ser Ala Glu Pro Thr Leu 820 825 830
- Val Val Lys Leu Pro Ser Leu Ser Ser Phe Gln Gly Lys Asn Ala Ser 835 840 845
- Gly Leu Gly Leu Tyr Gln Arg Glu Pro Ser Lys Val Thr Leu Pro Ser 850 855 860
- Leu Thr Ser Asn Asn Ser Ser Val Gly Glu Asn Ile Glu Asp Gly Ala 865 870 875 880
- Glu Lys Gly Thr Glu Ser Glu Lys Ile Ala Ala Ser Leu Ser Asp Asp 885 890 895

Asp Leu Lys Glu Asp Asn Asp Lys Lys Asp Asn Asp Thr Val Asn Ala 900 905 910

Pro Thr Thr Val Lys Lys Pro Pro Asn Ser Val Leu Leu Lys Lys Phe 915 920 925

Ser Lys Gly Lys Ile Leu Glu Leu Glu Ile His Ala Lys Ile Pro Glu 930 935 940

Lys Arg Leu Tyr Glu Gly Leu His Lys Leu Leu Glu Gly Trp Lys Gln 945 950 955 960

Tyr Gly Leu Lys Asn Leu Val Phe Asn Ile Thr Asn Met Ile Ile Thr 965 970 975

Gly Lys Leu Val Asn Asp Ser Ile Leu Phe Leu Arg Ser Thr Leu Phe 980 985 990

Glu Ile Met Val Leu Pro Asn Gly Asp Gly Arg Ser Leu Ile Lys Phe 995 1000 1005

Asn Lys Lys Thr Gly Ser Thr Lys Thr Leu Thr Lys Leu Ala Thr Glu
1010 1015 1020

Ile Gln Ile Ile Leu Gln Lys Glu Gly Val Leu Asp Lys 1025 1030 1035

<210> 13

<211> 775

<212> PRT

<213> Schizosaccharomyces pombe

<400> 13

Met Ser Thr Ile Ser Glu Val Gly Pro Trp Glu Leu Gly Leu Ser Leu 1 5 10 15

Gly Ser Gly Gly Pro Asn Ser Ser Arg Leu Ala Lys His Arg Glu Thr 20 25 30

Gly Gln Leu Ala Val Val Lys Pro Ile Val Gly Trp Ser Glu Leu Thr 35 40 45

Ser Ser Gln Gln Ala Arg Ile Glu Gly Glu Leu Val Leu Leu Arg Leu 50 55 60

Ile Glu His Pro Asn Val Leu Gln Leu Ile Asp Val Ile Ser Ala Gln 65 70 75 80

Glu Gln Leu Phe Val Val Val Glu Tyr Met Pro Gly Gly Glu Leu Phe 85 90 . 95

Asp Cys Met Leu Arg Lys Gly Ser Phe Thr Glu Gln Asp Thr Ala Lys
100 105 110

Phe Leu Trp Gln Ile Leu Cys Gly Leu Glu Tyr Cys His Lys Leu His
115 120 125

- Ile Cys His Arg Asp Leu Lys Pro Glu Asn Leu Tyr Leu Asp Ala His 130 135 140

  Gly Ser Ile Lys Ile Gly Glu Phe Gly Met Ala Ser Ile Gln Gln Pro 145 150 150 160
- Gly Lys Leu Gln Thr Ser Cys Gly Ser Pro His Tyr Ala Ser Pro
- Glu Ile Ile Met Gly Arg Ser Tyr Asp Gly Cys Ala Ser Asp Ile Trp 180 185 190
- Ser Cys Gly Ile Ile Phe Phe Ala Leu Leu Thr Gly Lys Leu Pro Phe
  195 200 205
- Asp Asp Asn Ile Arg Ser Leu Leu Leu Lys Val Cys Gln Gly Gln 210 215 220
- Phe Glu Met Pro Ser Asn Ile Ser Pro Gln Ala Gln His Leu Leu Tyr 225 230 235 240
- Arg Met Leu Asp Val Asp Ser Ser Thr Arg Ile Thr Met Glu Gln Ile 245 250 255
- Arg Glu His Pro Phe Leu Ser Cys Phe Val His Pro Asn Ile Ser Ile 260 265 270
- Pro Ile Ile Ser Ala Pro Ile Gln Pro Ile Asp Pro Leu Ile Val Gln 275 280 285
- His Leu Ser Leu Val Phe Arg Cys Ser Asp Asp Pro Met Pro Leu Tyr 290 295 300
- Glu Lys Leu Ala Ser Gln Ser Pro Leu Val Glu Lys Thr Leu Tyr Thr 305 310 315 320
- Leu Leu Ser Arg His Leu His Pro Pro Ser Ser Ala Ala Val Asp Arg 325 330 335
- Asn Arg Ala Val Val Asp Asp Leu Leu Gly Thr Ala Ala Ser Asn Gly 340 345 350
- Gln Gln Met Asp Glu Glu Glu Ile Glu Gln Ala Ile Asn Ile Pro Thr 355 360 365
- Leu Ala Pro Tyr Pro Ile Ser Tyr Ala Ala Glu Ser Val Pro Arg Pro 370 375 380
- Ala Thr Ser Ala Ser Pro Phe Leu Thr Pro Val Thr Thr Ser Gly Thr 385 390 395 400
- Phe Asn Tyr Ser Phe Asn Ala Thr Asn Pro Gln Ser Ile Leu Gln Arg 405 410 415
- Pro Ala Thr Thr Ser Ser Ala Val Pro Gln Leu Pro Lys Ser Val Thr 420 425 430

- Pro Gly Leu Ala Tyr Pro His Asp Ser Ser Met Leu Ser Ser Asn Tyr 435 440 445
- Arg Pro Pro Ser Ala Leu Ser Pro Arg Asn Phe Asn Val Ser Ile Asn 450 455 460
- Asp Pro Glu Val Gln Leu Ser Arg Arg Ala Thr Ser Leu Asp Met Ser 465 470 475 480
- Asn Asp Phe Arg Met Asn Glu Asn Asp Pro Ser Ile Val Gly Asn Leu 485 490 495
- Ala Ala Ser Asn Phe Pro Thr Gly Met Gly Pro Pro Arg Lys Arg Val
- Thr Ser Arg Met Ser Glu His Thr Gly Asn Arg Val Val Ser Phe Pro 515 520 525
- Arg Gly Ser Ala Phe Asn Pro Arg Val Thr Arg Phe Asn Val Gly Asn 530 540
- Glu Gln Phe Ser Asn Asn Ile Asp Asn Asn Asn Tyr Asn Gln Pro Tyr 545 550 555 560
- Ala Asn Ala Thr Met Asn Asn Ser Arg Arg Leu Arg Thr Pro Ser Gly 565 570 575
- Glu Arg Ser Met Arg Ala Asp Leu Ser Gln Ser Pro Ala Ser Tyr Asp 580 585 590
- Ser Leu Asn Val Pro Lys His Arg Arg Gln Ser Leu Phe Ser Pro
- Ser Ser Thr Lys Lys Lys Leu Ser Gly Ser Pro Phe Gln Pro Lys Arg 610 620
- Ser Phe Leu Arg Arg Leu Phe Ser Ser Glu Pro Ser Cys Lys Cys Val 625 630 635 640
- Tyr Ala Ser Leu Val Ala Ser Glu Leu Glu His Glu Ile Leu Glu Val 645 650 655
- Leu Arg Arg Trp Gln Leu Leu Gly Ile Gly Ile Ala Asp Ile Ile Tyr 660 665 670
- Asp Ser Val Ser Ala Ser Ile Ser Ala Arg Ile Lys Arg Gln Asn Ser 675 680 685
- Leu Asn Leu Lys Pro Val Arg Phe Arg Ile Ser Val Leu Ala Glu Phe 690 695 700
- Phe Gly Ser Gln Ala Val Phe Val Leu Glu Ser Gly Ser Ser Thr Thr 705 710 715 720
- Phe Asp His Leu Ala Thr Glu Phe Gln Leu Ile Phe Glu Asp Lys Gly 725 730 735

Phe Leu Asp Asn Leu Glu Leu Ser Tyr Phe Gln Ala Ser Ala Ser Arg
740 745 750

Pro Val Ser Arg Met Ser Val Ser Ser Ser Pro Phe Ala Val Phe Arg 755 760 765

Gln Arg Gln Ser Val Gln Ser 770 775

<210> 14

<211> 593

<212> PRT

<213> Schizosaccharomyces pombe

<400> 14

Met Val Lys Arg His Lys Asn Thr Ile Gly Val Trp Arg Leu Gly Lys
1 5 10 15

Thr Leu Gly Thr Gly Ser Thr Ser Cys Val Arg Leu Ala Lys His Ala 20 25 30

Lys Thr Gly Asp Leu Ala Ala Ile Lys Ile Ile Pro Ile Arg Tyr Ala 35 40 45

Ser Ile Gly Met Glu Ile Leu Met Met Arg Leu Leu Arg His Pro Asn 50 55 60

Ile Leu Arg Leu Tyr Asp Val Trp Thr Asp His Gln His Met Tyr Leu 65 70 75 80

Ala Leu Glu Tyr Val Pro Asp Gly Glu Leu Phe His Tyr Ile Arg Lys
85 90 95

His Gly Pro Leu Ser Glu Arg Glu Ala Ala His Tyr Leu Ser Gln Ile 100 105 110

Leu Asp Ala Val Ala His Cys His Arg Phe Arg Phe Arg His Arg Asp 115 120 125

Leu Lys Leu Glu Asn Ile Leu Ile Lys Val Asn Glu Gln Gln Ile Lys 130 135 140

Ile Ala Asp Phe Gly Met Ala Thr Val Glu Pro Asn Asp Ser Cys Leu 145 150 155 160

Glu Asn Tyr Cys Gly Ser Leu His Tyr Leu Ala Pro Glu Ile Val Ser 165 170 175

His Lys Pro Tyr Arg Gly Ala Pro Ala Asp Val Trp Ser Cys Gly Val
180 185 190

Ile Leu Tyr Ser Leu Leu Ser Asn Lys Leu Pro Phe Gly Gln Asn 195 200 205

Thr Asp Val Ile Tyr Asn Lys Ile Arg His Gly Ala Tyr Asp Leu Pro 210 215 220 Ser Ser Ile Ser Ser Ala Ala Gln Asp Leu Leu His Arg Met Leu Asp 230 Val Asn Pro Ser Thr Arg Ile Thr Ile Pro Glu Val Phe Ser His Pro 250 245 Phe Leu Met Gly Cys Thr Ser Leu Ser Ser Met Asp Ser Thr Thr Pro Pro Thr Pro Ser Leu Ser Ile Asp Glu Ile Asp Pro Leu Val Val Asp Cys Met Cys Val Leu Trp Lys Lys Ser Ser Ser Lys Lys Val Val Arg Arg Leu Gln Gln Arg Asp Asp Asn Asp Glu Lys Tyr Val Tyr Lys Val Leu Ser Glu Ile Leu Arg Asp Met Leu Lys Lys Gln Arg Phe Asp Glu Asn Lys Tyr Leu Ser Leu Tyr Asp Leu Ile His Asp Asn Asn Leu Phe Thr Lys Ala Ser Ile Ser Thr Thr Ser Leu Val Lys Ser Asn Val 360 Ser Thr Asn Ser Arg Lys Ser Ser Asn Phe Glu Asp Glu Leu Ala Arg 375 Arg Val Ser Ser Pro Leu Ser Ala Leu Asn Gln Met Ser Gln Ser Pro 390 395 Ile Pro Ile Arg Val Ser Ser Asp Lys Asp Tyr Asp Ser Tyr Ala Cys His Glu Val Val Ser Asn Pro Ser Thr Leu Asp Asp Asp Tyr Asn Tyr Met Phe Val Cys Pro Pro Glu Glu Tyr Thr Tyr Ser Thr Asp Asn Val Arg Thr Asp Ser Leu Asp Leu Gln Ser Leu Pro Thr Pro Thr Leu Glu Gln Leu Glu Ser Val Pro Phe Asn Arg Tyr Gly Tyr Val Arg Ile Phe 470 Pro Ser Thr Thr Leu Ser Ser Thr Ala Ser Gly Tyr Tyr Thr Pro Asp 485 490 Ser Leu Ser Thr Pro Glu Pro Ser Ile Asp Gly Leu Thr Asn Leu Asp 505 Asp Val Gln Val Gly Gly Phe Val Gln Gly Ser Gly Asn Gln Asn Arg

520

Arg Pro Ile Ser Phe Pro Val Ile Ser Asn Met Gln Pro Asn Ile Thr 530 540

Asn Val Arg Ser Ala Ser Ala Pro Leu Cys Ser Ser Pro Val Pro Ser 545 550 555 560

Arg Arg Tyr Ser Gln Tyr Ala Thr Asn Ala Arg Tyr Thr Pro Arg Lys 565 570 575

Val Ser Ser Gly Ser Val Leu Arg Lys Ile Ser Ser Phe Phe Arg Lys 580 585 590

Asp

<210> 15

<211> 1462

<212> PRT

<213> Candida albicans

<400> 15

Met Ser Thr Val Val Asn Arg Arg Ser Ser His Gln Phe Asp Ser Pro 1 5 10 15

Ser Asn His Leu Asp His Ser Ser Ser Met Asn Val Asp Lys Val Val 20 25 30

Gln Ser Val Thr Asn Ala Thr Lys Arg Leu Ser Gln Ile Ser Thr Asn 35 40 45

Thr Asn Asn Ser Asn Lys Lys Arg Lys Thr Gln Asn Lys Ile Gly Pro 50 55 60

Trp Lys Leu Gly Arg Thr Leu Gly Arg Gly Ser Thr Gly Arg Val Arg 65 70 75 80

Leu Ala Lys Asn Thr Thr Gly Gln Leu Ala Ala Val Lys Ile Val 85 90 95

Pro Lys Ser Asn Phe Lys Lys Leu Glu Asn Pro Lys Tyr Lys Arg Ser

Lys Glu Asp Ala Thr Arg Leu Pro Tyr Gly Ile Glu Arg Glu Ile Ile 115 120 125

Ile Met Lys Leu Ile Ser His Pro Asn Ile Met Gly Leu Tyr Asp Val

Trp Glu Asn Lys Asn Asp Leu Tyr Leu Ile Leu Glu Tyr Ile Glu Gly 145 150 155 160

Gly Glu Leu Phe Asp Tyr Leu Ile Lys Arg Gly Lys Leu Gln Glu Tyr 165 170 175

Glu Ala Ile Asn Tyr Phe Lys Gln Ile Ile Asn Gly Ile Asn Tyr Leu 180 185 190

- His Gln Phe Asn Ile Cys His Arg Asp Leu Lys Pro Glu Asn Leu Leu 195 200 205
- Leu Asp Phe Asn Lys Asn Ile Lys Ile Ala Asp Phe Gly Met Ala Ala 210 215 220
- Leu Glu Val Lys Glu Lys Leu Leu Glu Thr Ser Cys Gly Ser Pro His 225 230 235 240
- Tyr Ala Ser Pro Glu Ile Val Ala Gly Lys Asn Tyr His Gly Ala Pro 245 250 255
- Ser Asp Ile Trp Ser Cys Gly Ile Ile Leu Phe Ala Leu Leu Thr Gly 260 265 270
- His Leu Pro Phe Asp Asp Glu Asn Ile Arg Lys Leu Leu Lys Val 275 280 285
- Gln Ser Gly Lys Phe Asn Met Pro Pro Glu Leu Ser Phe Glu Ala Lys 290 295 300
- Asp Leu Ile Thr Lys Met Leu Lys Val Asn Pro Arg Glu Arg Ile Thr 305 310 315 320
- Ile Asp Ala Ile Leu Thr His Pro Leu Leu Ala Lys Tyr Pro Glu Pro 325 330 335
- Thr Val Ser Tyr Ser Ser Thr Thr Leu Asp Ile Asn Ser Ile Asn 340 345 350
- Ile Lys Gln Ile Glu Ser Val Asp Lys Ile Asp Lys Glu Ile Leu Lys 355 360 365
- Asn Leu Ser Val Leu Phe His Asn Cys Asp Glu Lys Thr Ile Ile Ser 370 375 380
- Arg Leu Leu Ser Pro Asn Arg Cys Pro Glu Lys Met Phe Tyr Tyr Leu 385 390 395 400
- Leu Met Lys Tyr Arg Asn Glu His Leu Ser Asn Ser Asn Ser Phe Asn 405 410 415
- Ser Ser Asn Asp Val Asp Ser Ala Arg Ser Leu Pro Arg Ser Thr Ser 420 425 430
- Tyr Val Lys Thr Thr Val Thr Asp His Ala Thr Gly Glu Lys His Thr 435 440 445
- Thr Val Lys Lys Ile Gln Gln Ser Ser Ser Ile Tyr Ser Asn Arg Ser 450 455 460
- Leu Leu Lys Lys Ser Thr Ser Ala Lys Gly Asn Val Leu Ser Asn Ile 465 470 475 480
- Thr Asn Arg Pro Asn Thr Pro Lys Gln Phe Ser Ala Ser Ser Ser Phe
  485 490 495

- Asn Lys Lys Ala Leu His Ser Lys Thr Gln Ile Tyr Ala Ser Arg
  500 505 510
- Ser Arg Asn Ala Ser Ser Arg Ser Leu Lys Ser Asn Ser Ser Thr Gly 515 520 525
- Arg Asn Gly Asn Asn Ala Ser Val Thr Ser Val Asn Lys Ile Pro Glu 530 540
- Ile Thr Gly Ala Thr Val Leu Gln Pro Ile Pro Ser Met Ala Met Asn 545 550 555 560
- Arg Gly Asp Glu Gln Gln Asn Lys Thr Lys Lys Asn Leu Thr Gly Thr
- Phe Gly Asn Lys Ser Leu Leu Asn Phe Gln Leu Ile Cys Glu Glu Val 580 585 590
- Phe Glu Asn Asp Lys Glu Asn Ser Lys Pro Val Ser Lys Thr Pro Val 595 600 605
- Ser Gln Leu Pro Pro Pro Pro Pro Pro Pro Ile Glu Thr Pro Thr Ser 610 615 620
- Arg Thr Asn Ser Val Lys Arg Gly Lys Thr Trp Ser Leu Ala Arg Arg 625 630 635 640
- Glu Arg Glu Leu Ala Glu Gln Val Arg Gln Arg Asn Glu Ala Arg Glu
  645 650 655
- Asn Lys Leu Lys Ala Glu Glu Leu Ala Arg Lys Glu Leu Glu Glu Glu 660 665 670
- Lys Lys Arg Ile Ala Glu Glu Lys Lys Arg Leu Glu Gln Gln Glu Arg
- Glu Leu Asp Glu Lys Gln Lys Leu Gln Glu Lys Gln Lys Ala Ala Leu 690 700
- Glu Lys Leu Gln Lys His Gln Ser Ala His Asp Phe Glu Gly Leu Phe 705 710 715 720
- Ala Ser Asn Arg Arg Ser Val Thr Asp Met Ala Pro Ser Ser Gly Met
  725 730 735
- Ser Ser Leu Asp Pro Arg Ala His Met Val Ser Arg Ala Asn Thr Ile 740 745 750
- Gly Ser Pro Asn Leu Ser Ser Ser Ser Val Asn Ile Asp Glu Asn Ala 755 760 765
- Ser Lys Val Leu His Lys Phe Gly Ile Asp Val Ala Pro Ser Pro Lys 770 780
- Arg Phe Ser Arg Ala Ser Lys Thr Ser Thr Ser Lys Asn Leu Ser Ser 785 790 795 800

- Phe Leu Ala Pro Thr Val Ser Arg Asn Leu Ser Ser Gln Leu Lys Thr 805 810 815
- Ser Ser Ser Lys Asn Leu Ala Gly Tyr Leu His Gly Thr Thr Asp Thr 820 825 830
- Asn Gly Ser Ala Ile Ala Ala Lys Lys Lys Asp Asp Ser Thr Asn Glu 835 840 845
- Ala Leu Thr Ile Glu Glu Phe Asn Ala Lys Glu Arg Thr Ser Met Ser 850 860
- Pro Ser Ile Ser Lys Ala Ser Val Asn Lys Arg Asn Ser Asn Gln Ser 865 870 875 880
- Ser Tyr Tyr Arg Ser Met Phe Ser Asp Asn Gly Asn Asp Asp Asn Val 885 890 895
- Thr Lys Val Arg Thr Gly Glu Ser His Leu Ser Val Gln Glu Glu Glu 900 905 910
- Glu Met Asp Met Glu Asn Ala Ile Asp Glu Asp Ile Ser Leu Ile Pro 915 920 925
- Asn Pro Arg Phe Ser Arg Phe Ser Phe Gly Gly Leu Leu Gly Ser Asn 930 935 940
- Thr Val Ala Asn Glu Glu Gly Asp Trp Thr Ile Met Asn Ser Thr Leu 945 950 955 960
- Asn His Ser Asn Thr Val Val Arg Gly Thr His Asn Lys Ser Ser Thr 965 970 975
- Met Leu Gly Leu Gly Ile Lys Met Arg Asp Thr Thr Ile Lys Glu 980 ' 985 990
- Asp Glu Glu Phe Glu Asp Glu Lys Pro Phe Ile Ser Val Pro Ser Ser 995 1000 1005
- Glu Asp Asp Glu Gly Asn Thr His Lys Asn Lys Arg Gly Gly Leu Arg 1010 1015 1020
- Asp Ser Gly Asn Tyr Asp Phe Asp Glu Glu His Ser Val Ala Ser Thr 1025 1030 1035 1040
- Ala Asn Thr Glu Tyr Ser Asp Val Ala Ser Gln Gly Gln Met Pro 1045 1050 1055
- Gly Ser His Thr Ile His Gln Leu Glu Thr Glu Leu Ser Asn Phe Asp 1060 1065 1070
- Leu Leu Ser Tyr Arg Val Ala Asp Ile Gly Lys Val Asn Lys His Lys 1075 1080 1085
  - Pro Ser Ile Val Asp Ser Lys Glu Thr Leu Leu Lys Asn His Ser Ser 1090 1095 1100

- Asp Glu Ala Thr Ile Glu Val Lys Glu Asp Asn Asn Glu His Asp Phe 1105 1110 1115 1120
- Asn Asp Lys Ile Lys Gln His Tyr Asp Asp Asn Gly Asp Ser Glu Glu 1125 1130 1135
- Asp Asp Glu Asp Glu Glu Glu Glu Asp Asp Asp Asp Asp Asp 1140 1145 1150
- Asp Ala Arg Ser Ser Phe Glu Ala Arg Pro His Ser His Asn Tyr Ser 1155 1160 1165
- Leu Ala Glu Ile Thr Ser Glu Ser Pro Val Gly Gly Gly Tyr Glu Ser 1170 1175 1180
- Pro Ser Ile Ala Asn Asp Phe Lys Lys Ser Arg His Ser Thr Gly Ile 1185 1190 1195 1200
- Phe Ser Thr Thr Gln Phe Pro Arg Ser Pro Tyr Val Val Asn Asn Asn 1205 1210 1215
- Gly Asp Ser Asn Lys Asp Glu Asn Ser Gln Gln Gln Thr Lys His Met 1220 1225 1230
- Leu Asn Asp Gly His Lys Gly Leu Ile Thr Ser Pro Val Gln Asp Thr 1235 1240 1245
- Phe Gly Ser Lys Lys Pro Val Glu Ser Asn Ser Leu Phe Arg Arg Leu 1250 1260
- Ser Leu Asn Pro Asn Arg Ala Ala Pro Lys Ala Pro Ala Pro Pro Pro 1265 1270 1275 1280
- Pro Ser Ala Pro Ile Ser Ser Ala Ala Lys Ala Asn Ile Ser Gln Pro 1285 1290 1295
- Leu Ser Ser Pro Thr Lys Gly His Asn Arg Phe Ser Arg Ile Ser Ile 1300 1305 1310
- Gly Ser Lys Asn Met Leu Gln Lys Glu Asp Lys Ser Thr Lys Ser Asn 1315 1320 1325
- Trp Phe Lys Lys Phe Phe His Ser Leu Thr Thr Pro Ser Ala Lys Asp 1330 1340
- Gln Ser Gly Asn Ser Ser Ser Lys Val Ala Ser Lys Asp Ile Lys Ile 1345 1350 1355 1360
- Ile Asp Thr Ser Leu Thr Ala Ala Gln Leu Ile Arg Val Ile Lys Tyr
  1365 1370 1375
- Gln Leu Glu Leu Lys Lys Ile Glu Gly Ser Ile Ser Lys Val Asp Ile 1380 1385 1390
- Asp Glu Glu Phe Gly Leu Ile Ser Gly Val Ile Pro Ser Lys Phe Ala 1395 1400 1405

Asn Gly Arg Lys Leu Lys Phe Lys Ile Glu Val Ile Asp Leu Ile Asn 1410 1415 1420

Ser Ser Ser Leu His Val Ile Lys Met Lys Gly Asn Asp Lys Gly Phe 1425 1430 1435 1440

Gln Ser Leu Val Asn Ile Val Thr Phe Ile Ile Lys Lys Glu Glu Gln 1445 1450 1455

Asp Lys Ile Ser Arg Arg 1460

<210> 16

<211> 1349

<212> PRT

<213> Candida albicans

<400> 16

Met Pro His Ser Arg Gln Pro Ser Ile Ser Ser Ile Met Ser Gln
1 5 10 15

Ser Asn His Asn His Pro Gln Lys Ile Gly Pro Trp Lys Leu Gly Lys
20 25 30

Thr Thr Gly Gln Lys Ala Ala Val Lys Val Val Ser Lys Ser Glu Leu 50 55 60

Gln Asp Glu Glu Thr Glu Lys Asn Gly Asp Gly Leu Pro Tyr Gly Ile 65 70 75 80

Glu Arg Glu Ile Ile Met Lys Leu Leu Thr His Pro Asn Val Leu 85 90 95

Arg Leu Tyr Asp Val Trp Glu Thr Ser Lys Ala Leu Tyr Leu Val Leu 100 105 110

Glu Tyr Val Glu Gly Gly Glu Leu Phe Asp Leu Leu Val Glu Arg Gly
115 120 125

Pro Leu Pro Glu Val Glu Ala Ile Lys Tyr Phe Arg Gln Ile Ile Leu 130 135 140

Gly Thr Ala Tyr Cys His Ala Leu Gly Ile Cys His Arg Asp Leu Lys 145 150 155 160

Pro Glu Asn Leu Leu Leu Asp Ser Gln Leu Asn Val Lys Leu Ala Asp 165 170 175

Phe Gly Met Ala Ala Leu Glu Ser Asn Gly Lys Leu Leu Glu Thr Ser 180 185 190

Cys Gly Ser Pro His Tyr Ala Ala Pro Glu Ile Val Ser Gly Leu Lys 195 200 205

- Tyr His Gly Ala Ala Ser Asp Val Trp Ser Cys Gly Val Ile Leu Phe 210 215 220
- Ala Leu Leu Thr Gly Arg Leu Pro Phe Asp Asp Glu Asn Ile Arg Asn 225 230 235 240
- Leu Leu Leu Lys Val Gln Ala Gly Asn Phe Glu Met Pro Val Asp Glu
  245 250 255
- Val Ser Arg Glu Ala Arg Asp Leu Ile Ala Arg Met Leu Glu Val Asp 260 265 270
- Pro Met Arg Arg Ile Ser Thr Glu Lys Ile Leu Arg His Pro Leu Leu 275 280 285
- Thr Lys Tyr Pro Met Ser Asn Glu Asp Leu Ile Ser Glu Lys Ser Leu 290 295 300
- Pro His Pro Gln Thr Gly Tyr Lys Ser Leu Gly Ser Val Arg Asn Ile 305 310 315 320
- Asp Lys Gln Ile Leu Ser Asn Leu Thr Ile Leu Trp Asn Asp Arg Pro 325 330 335
- Glu Glu Glu Ile Val Asp Cys Leu Leu Lys Asp Gly Ser Asn Pro Glu
  340 345 350
- Lys Thr Phe Tyr Ala Leu Leu Met Arg Tyr Lys His Asn Gln Glu Asp 355 360 365
- Asn Thr Asn Asn Asn Ser Pro Lys Lys Ser Thr Ser Phe Asn Asn Lys 370 375 380
- Val Val Arg Ser Gly Ser Lys Tyr Ser Leu Asn Gly Thr Pro Arg Arg 385 390 395 400
- Lys Arg Ala Ser His Ile Ser Val Ser Arg Pro Thr Ser Phe Gln Tyr 405 410 415
- Lys Ser Asn Pro Gly Ala Gly Ala Thr Ala Asn Arg Asn Ser Val Ala
  420 425 430
- Arg His Ser Val Ala Ser Ser Ala Asn Asn Ser Pro Arg Lys Ser Pro 435 440 445
- Tyr Lys Ser Pro Tyr Arg Ser Pro Tyr Arg Ser Pro Tyr Lys Ser Pro 450 455 460
- Ser Lys Arg Tyr Ser Tyr Asn Gln Ser Pro Thr Lys Ser Pro Tyr Gly 465 470 475 480
- Arg Arg Ser Asn Ser Gln Arg Gln Phe Glu Asn Glu Pro Leu Lys Ala 485 490 495
- Lys Pro Arg Asn Ile Tyr Asn Glu Ile Val Asp Ala Gln Ser Asn Phe 500 505 510

- Ser Leu Pro Pro Ser Leu Pro Pro Ser Leu Pro Ser Lys Asp Ser Arg 515 520 525
- Tyr Met Ile Asp Glu Pro Asn Gln Pro Gln Leu Gln Gln Pro Ala Leu 530 535 540
- Ser Gln Val Pro Glu Asn Pro Ile Val Asp Glu Ser Pro Asp Leu Met 545 550 560
- Gln Ser Ala Lys Ile Ser Ser Gly Lys Arg Asn Ser Ile Ile Gly Lys 565 570 575
- Asn Asn Asn Ser Asn Ser Asn Lys Arg Met Ser Lys Arg Lys Ser
- Ile Arg Ala Ser Met Thr Thr Gly Leu Lys Arg Asn Ser Ile Thr Met 595 600 605
- Lys Leu Leu Ser Thr Tyr Ala Lys Leu Ser Gly Asp Asp Asp Trp Glu 610 615 620
- Tyr Met Asp Lys Gln Thr Lys Arg Thr Ser Ala Thr Phe Ala Ala Leu 625 630 635 640
- Cys Asp Lys Ile Phe Asn Gln Glu Asp Tyr Asp Glu Glu Asp Glu Gln 645 650 655
- Leu Val Asp Pro Glu Glu Lys Glu Ala Lys Glu Tyr Glu Arg Leu Met 660 665 670
- Glu Leu Glu Arg Lys Lys His Glu Ala Glu Leu Lys Ala Arg Arg Glu 675 680 685
- Leu Glu Lys Lys Lys Arg Arg Gln Lys Arg Arg Ser Ile Leu Ser Ser 690 695 700
- Lys Lys Leu Ser Ile Ile Val Lys Asn Asp Ala Asp Pro Asn Asn Ser 705 710 715 720
- Glu Gln Glu Leu Val Asp Glu Gly Ile Lys Gln Pro Lys Arg Gln Ser 725 730 735
- Lys Asn Leu Thr Ala Leu Arg Ala Leu Ser Glu Gly Asn His Ala Ser 740 745 750
- Glu Glu Leu Thr Leu Glu Asp Val Glu Asn Leu Lys Arg Arg Ser Ala 755 760 765
- Ser Gln Pro Val Pro Lys Arg Arg Gln Thr Pro Val Leu Thr Arg Arg 770 785
- Pro Val Ser Arg Leu Asp Pro Leu Trp Gln Ala His Glu Asn Glu Gln 785 790 795 800
- Leu Asp Arg Ala Lys Asp Ala Leu Glu Glu Trp Arg Asp Ser Gln 805 810 815

- Lys Arg Ser Ser Thr Val Ser Arg Lys Lys Val Asn Arg Glu Ser Met 820 825 830
- Ile Ser Val Met Asp Asp Ile Val Glu Glu Asp Gln Gly Arg Val Asn 835 840 845
- Arg Arg Ser Thr Arg Asn Thr Tyr Tyr Glu Arg Glu Arg Asp Tyr Glu 850 860
- Leu Pro Glu Pro Thr Val Glu Asp Ser Asn Leu Thr Asp Asp Tyr Met 865 870 875 880
- Thr Glu Ile Arg Lys Ser Arg Leu Leu Asn Ser Gln Leu Asn Val Arg 885 890 895
- Asp Pro Leu Asn Glu Lys Arg Lys Ser Glu Pro Lys Thr Leu Ile Ser 900 905 910
- Asn Val Gln Ile Pro Ser Val Thr Arg Lys Ser Arg Asn Phe Thr Thr 915 920 925
- Ser Asn Lys Arg Leu Ser Val Leu Ser Met Tyr Ser Thr Lys Glu Ser 930 935 940
- Tyr Arg Asp Leu Asn Ser Ile Ile Asn Ser Pro Asp Glu Asn Pro Glu 945 950 955 960
- Gln His Gln Asn Met Asn Lys Pro Ala Leu Arg Thr Ser Ile Ala Asp 965 970 975
- Arg Leu Asp Lys Ala Gly Leu Ala Glu Pro Glu Tyr Glu Thr Glu Thr 980 985 990
- Asp Gly Glu Asp Lys Val Ser Val Ile Asp Leu Asp Asp His Leu Ala 995 1000 1005
- Asp Arg Arg Thr Ser Tyr Tyr Asp Gly Ser Gly Lys Arg Ala Ser Arg 1010 1015 1020
- Ala Ser Thr Thr Lys Arg Tyr Asn Val His Ser Ser Ser Gly Gln Arg 1025 1030 1035 1040
- Pro Lys Ser Lys Val Pro Asp Leu Pro Lys Asn Asp Tyr Asp Asp Thr 1045 1050 1055
- Phe Val Ser Asn Ser Asp Glu Val His Lys Arg Gln Tyr Lys Ser Met 1060 1065 1070
- Val Ser Asp Glu Ser Ser Ala Ser Asp Asp Val Phe Asp Lys Ile Lys 1075 1080 1085
- Leu Pro Asp Gly Lys Ser Thr Lys Ser Ser Ile Asp Glu Leu Ala Asn 1090 1095 1100
- Gly Thr Ser Thr Ser Gly His Arg Lys Pro Lys Ile Arg His Ser Gln 1105 1110 1115 1120

Pro Gly Pro Glu Met Leu Ile Pro His Leu Asn Gly Gly Ile Glu Ser 1125 1130 1135

Ser Gln Pro Met Ser Lys Val Arg Gly Asn Asn Ser Ser Gly His Asp 1140 1145 1150

Asp Ser Val Pro Pro Pro Pro Pro Ala His Lys Val Asn Lys Lys Pro 1155 1160 1165

Leu Asp Asp Lys Thr Asn Phe Pro Pro Glu Val Asp Pro Lys Arg 1170 1175 1180

Lys Gly Ser Phe Phe Arg Lys Leu Ser Trp Gly Ser Lys Lys Thr Ile 1185 1190 1195 1200

Glu Asn Asn Thr Asn Ala Ala Thr Asn Thr Thr Gln Gln Gln Leu 1205 1210 1215

Pro Ser Pro Ala Glu Ser Lys Glu Glu Lys Pro Lys Ser Ser Phe Phe 1220 1225 1230

Arg Trp Phe Ser Ser Ser Asn Thr Pro Ser Ala Ala Glu Ile Arg Lys
1235 1240 1245

Phe Asn Thr Ile Leu Pro Lys His Glu Met Ser Thr Ala Leu Phe Ala 1250 1260

Leu Leu Asn Ser Trp Ser Asn Phe Gly Leu Lys Asp Leu Arg Asn Asp 1265 1270 1275 1280

Gln Val Gly Tyr Tyr Ile Thr Gly Ala Ile Ser Lys His Asn Ser Phe 1285 1290 1295

Asn Leu Lys Ser Cys Lys Phe Arg Ile Lys Ile Asn Gln Arg Asp Phe 1300 1305 1310

Asn Gln Lys Ser Glu Ile Val Cys Val Arg Val Lys Gly Ser Lys Val 1315 1320 1325

Thr Thr Asp Thr Leu Phe Ser Glu Ile Glu Lys Val Leu Leu Lys Glu 1330 1340

Gly Val Leu Asp Lys 1345

<210> 17

<211> 1029

<212> PRT

<213> Saccharomyces cerevisiae

<400> 17

Met Thr Leu Asp Tyr Glu Ile Tyr Lys Glu Gly Gly Ile Leu Asn Asn 1 5 10 15

Arg Tyr Gln Lys Ile Glu Asp Ile Ser Glu Gly Ser Tyr Gly Tyr Val 20 25 30

- Ser Leu Ala Lys Asp Val Arg Glu Lys Arg Leu Val Ala Val Lys Tyr 35 40 45
- Ile Phe Lys Leu Glu Asp Asp Gly Gln Tyr Asp Gly Pro Gln Asp Asp 50 55 60
- Glu Asn Asp Cys Asp Ser Ser Asp Cys Asp Asp Asp Glu Asp Thr Lys
  65 70 75 80
- Val Asp Thr Asp Arg His Glu Asn Glu Asn Gly Asn Ala Ser Ser Asn 85 90 95
- Asn Gly Ser Ser Arg Glu Lys Lys His Asn Leu Tyr Lys His Lys Lys
  100 105 110
- Ser Leu Ile Ser Ser Lys Val Lys Ser Arg Leu Ser Asn Asn Ile Cys 115 120 125
- Leu Glu Ala Met Tyr Glu Val Asp Ile Gln Thr Lys Ile Gly Arg His 130 135 140
- Gln Asn Ile Ala Ala Leu Leu Asp Phe Phe Asp Ser Tyr Ile Ile Met 145 150 155 160
- Glu Tyr Cys Ser Gly Gly Asp Leu Tyr Glu Ala Ile Lys Ala Asp Ala 165 170 175
- Val Pro Lys Lys Thr Lys Ser Ile Thr His Ile Ile Thr Gln Ile Met 180 185 190
- Asp Ala Ile Glu Tyr Val His Asn Lys Gly Ile Tyr His Arg Asp Ile 195 200 205
- Lys Pro Glu Asn Ile Leu Ile Ser Gly Ile Asp Trp Thr Ile Lys Leu 210 215 220
- Thr Asp Trp Gly Leu Ala Thr Thr Asp Lys Thr Ser Met Asp Arg Asn 225 230 235 240
- Val Gly Ser Glu Arg Tyr Met Ser Pro Glu Leu Phe Asp Ser Asn Leu 245 250 255
- Asp Ile Lys Glu Arg Lys Glu Pro Tyr Asp Cys Ala Lys Val Asp Leu 260 265 270
- Trp Ala Met Gly Ile Val Phe Leu Asn Ile Val Phe His Lys Asn Pro 275 280 285
- Phe Ser Ile Ala Asn Gln Ser Asp Lys Ser Phe Cys Tyr Phe Ala Ala 290 295 300
- Asn Arg Glu Ala Leu Phe Asp Val Phe Ser Thr Met Ala Tyr Asp Phe 305 310 315 320
- Phe Gln Val Leu Arg Tyr Ser Leu Thr Ile Asp Pro Ala Asn Arg Asp 325 330 335

- Leu Lys Met Met Arg Thr Glu Leu Gln Asn Leu Ser Glu Tyr Thr Leu 340 345 350
- Asp Asp Glu Tyr Tyr Asn Asn Leu Asp Glu Gly Tyr Glu Glu Thr Met 355 360 365
- Ile Asp Gly Leu Pro Pro Gln Pro Val Pro Pro Ser Ser Ala Pro Val 370 375 380
- Ser Leu Pro Thr Pro Ile Ser Ser Ser Asn Lys Gln His Met Pro Glu 385 390 395 400
- Phe Lys Lys Asp Phe Asn Phe Asn Asn Val Asn Glu Arg Lys Arg Ser 405 410 415
- Asp Val Ser Gln Asn Gln Asn Val Ala Ser Gly Phe Phe Lys Lys Pro
  420 425 430
- Ser Thr Gln Gln Gln Lys Phe Phe Asn Gln Gly Tyr Asn Thr Thr Leu 435 440 445
- Ser Thr His Glu Arg Ala Lys Ser Ala Pro Lys Phe Lys Lys 450 455 460
- Arg Asn Lys Tyr Gly Arg Thr Asp Asn Gln Phe Ser Lys Pro Val Asn 465 470 475 480
- Ile Glu Asp Arg Lys Lys Ser Lys Ile Leu Lys Lys Ser Arg Lys Pro
  485 490 495
- Leu Gly Ile Pro Thr Pro Asn Thr His Met Asn Asn Phe Phe His Asp 500 505 510
- Tyr Lys Ala Arg Asp Glu Phe Asn Thr Arg Asp Phe Phe Thr Pro Pro 515 520 525
- Ser Val Gln His Arg Tyr Met Glu Gly Phe Ser Asn Asn Asn Asn Lys 530 540
- Gln Tyr Arg Gln Asn Arg Asn Tyr Asn Asn Asn Asn Asn Asn Ser Asn 545 550 555 560
- Asn Asn His Gly Ser Asn Tyr Asn Asn Phe Asn Asn Gly Asn Ser Tyr 565 570 575
- Ile Lys Gly Trp Asn Lys Asn Phe Asn Lys Tyr Arg Arg Pro Ser Ser 580 585 590
- Ser Ser Tyr Thr Gly Lys Ser Pro Leu Ser Arg Tyr Asn Met Ser Tyr 595 600 605
- Asn His Asn Asn Asn Ser Ser Ile Asn Gly Tyr Ala Arg Arg Gly Ser 610 620
- Thr Thr Thr Val Gln His Ser Pro Gly Ala Tyr Ile Pro Pro Asn Ala 625 630 635 640

- Arg Asn His His Val Ser Pro Thr Asn Gln Phe Leu Arg Val Pro Gln 645 650 655
- Ser Thr Ala Pro Asp Ile Ser Thr Val Leu Gly Gly Lys Pro Ser Tyr 660 665 670
- Gln Glu His Tyr Thr Gln Asp Ser Met Asp Ser Glu Gly Asp His Asp 675 680 685
- Ser Asp Asp Val Leu Phe Thr Leu Glu Glu Gly Asp His Asp Phe Val 690 695 700
- Asn Gly Met Asp Asn Leu Ser Ile Asn Asp His Leu Pro His Thr Thr 705 710 715 720
- Val Gly Ser His Asn Glu Val Phe Val His Ala Ser Thr Asn His Asn 725 730 735
- Asn Asn Gly Asn Asn Asn His Ile Asp Thr Asn Ser Thr Thr Asn Gln 740 745 750
- Tyr His Arg Gln Tyr Ile Pro Pro Leu Thr Thr Ser Leu His Ile
  755 760 765
- Asn Asn Asn Asn Glu Ser Asn Glu Leu Pro Asp Leu Leu Lys Ser
  770 780
- Pro Ala Ser Ser Glu Ala His Leu Asn Leu Ser Ser Gly Pro Ile Asp 785 790 795 800
- Pro Ile Leu Thr Gly Asn Ile Gly Asn Arg Tyr Ser His Ser Ser Asp
- Ser Lys Glu Leu Glu Gln Glu Arg Arg Leu Ser Met Glu Gln Lys Phe 820 825 . 830
- Lys Asn Gly Val Tyr Val Pro Pro His His Arg Lys Ser Phe Asn Leu 835 840 845
- Gly Thr Gln Val Pro Pro Met Asn Met Lys Thr Ser Asn Glu Ala Thr 850 855 860
- Leu Ser Val Ser His Asn Ser Val Asn Phe Gly Gly Ser Tyr Asn Ser 865 870 875 880
- Arg Arg Ser Ser Ala Asn Glu Ser Asn Pro Leu His Met Asn Lys Ala 885 890 895
- Leu Glu Lys Leu Ser Ser Pro Gly Ala Lys Ser Ser Phe Val Gly
  900 905 910
- Phe Pro Lys Pro Leu Leu Pro Arg Asn His Ser Ser Thr Thr Ile Ala 915 920 925
- Leu Gln Asn Glu Asp Val Phe Ala Asp Ser Asn Asn Asp Ala Ile Ile 930 935 940

Phe Glu Asp Glu Glu Tyr Glu Gly Glu Ser Asp Lys Met Ala His Gly 945 950 955 960

Lys Met Glu Gly Gly Asp Asn Glu Ser Ser Ser Thr Ser Pro Asp Glu 965 970 975

Arg Gln Ile Phe Gly Pro Tyr Glu Ile Tyr Ala Gln Thr Phe Ala Gly 980 985 990

Ser Thr His Asp Lys Lys Leu Gly Ala Gly Arg Lys Thr Ser Ile Gln 995 1000 1005

Asp Glu Met Val Gly Ser Leu Glu Gln Tyr Lys Asn Asn Trp Leu Ile 1010 1015 1020

Leu Gln Gln Gln Asp 1025

<210> 18

<211> 502

<212> PRT

<213> Saccharomyces cerevisiae

<400> 18

Met Leu Ser Asp Cys Leu Leu Asn Asn Phe Arg Ile Thr Ala Gln Ile

Gly Ser Gly Ala Tyr Gly Leu Val Phe His Val Val Asp Ile Leu Thr 20 25 30

Ser Arg Glu Tyr Ala Val Lys Thr Val Phe Lys Ser Ser Ser Met Asp 35 40 45

Glu Phe Tyr Asn Lys Asn Gly Leu Asn Asn Asn Ser Gln Val Ala Arg 50 55 60

Thr Thr Leu Leu Gln Thr Gln Leu Tyr His Phe Phe Lys Ser Phe Gln 65 70 75 80

Lys Lys Leu Phe Leu Pro Ser Val Asp Leu Asp Ser Ile Leu Gln Leu 85 90 95

Thr Glu Asn Glu Leu Asn Arg Leu Pro His Tyr Arg Glu Ile Ala Phe
100 105 110

Gln Leu Arg Val Gln Ser His Gly Asn Ile Val Lys Ile His Gln Val 115 120 125

Leu Glu Ser Ser Ile Ala Thr Phe Ile Val Met Asp Tyr Tyr Asp Arg 130 135 140

Asp Leu Phe Thr Ser Ile Val Asp Asp Lys His Phe Val Asn His Gly
145 150 155 160

Ile Leu Ile Lys Lys Val Phe Leu Gln Leu Cys Ser Ala Leu Asp His
165 170 175

- Cys His Arg Leu Gly Ile Tyr His Cys Asp Ile Lys Pro Glu Asn Val 180 185 190
- Leu Leu Asp Arg Asn Asp Asn Ala Tyr Leu Cys Asp Phe Gly Leu Ser 195 200 205
- Thr Lys Ser Lys Tyr Leu Ala Pro Asn Val Cys Val Gly Ser Ser Tyr 210 215 220
- Tyr Met Ala Pro Glu Arg Ile Leu Tyr Cys Leu Asn Thr Thr Asn 225 230 235 240
- Gly Ile His Val Asp Glu Cys Cys Ser Ser Leu Pro Thr Asp Thr Gly
  245 250 255
- Asp Ile Trp Ser Leu Gly Ile Ile Leu Ile Asn Leu Thr Cys Ile Arg 260 265 270
- Asn Pro Trp Leu Lys Ala His Gln Lys Glu Asp Asn Thr Phe Gln His 275 280 285
- Phe Ala Asn Asp Asn Asn Val Leu Lys Lys Ile Leu Pro Ile Ser Asp 290 295 300
- Glu Leu Phe Thr Val Leu Thr Lys Ile Leu Gln Leu Asn Pro Tyr Thr 305 310 315 320
- Arg Ile Asp Met Lys Thr Leu Met Ser Glu Val Ser Ser Leu Thr Ser 325 330 335
- Phe Thr Arg Glu Gly Pro Leu Ser Gln Val Pro Ile Leu Ser Ser Glu 340 345 350
- Val Tyr Met Thr His Ile Ile Arg Asn Glu Asn Leu Phe Leu Ser Asp
- Gln Gln Gln Gln Gln Glu Gln Glu Gln Glu Gln Lys Gln Glu Gln 385 390 395 400
- Ile Gln Asn Gln Glu Gln Ala Gln Gln Gln Glu Glu Glu Asp Ala 405 410 415
- Glu Pro Glu Ser Asp Ile Pro Ser Thr Tyr Asn Ser Asp Gly Ser Met 420 425 430
- Glu Lys Tyr Glu Tyr Thr Asn Asn His Asn Asn Ser Thr Phe Leu Thr 435 440 445
- Ser Ser Met Asp Ser Thr Pro Tyr Gln Ser Asp Ile Asp Asp Val Ser 450 460
- Ala Ser Lys Asp Cys Lys Phe Gln Gln Asp Thr Leu Arg Asn Arg Leu 465 470 475 480

Leu Cys Leu Gln Met Asn Phe Ser Thr Leu Thr Asp Gly Pro Asn Glu 485 490 495

Lys Trp Leu Pro Asp Tyr 500

<210> 19

<211> 461

<212> PRT

<213> Saccharomyces cerevisiae

<400> 19

Met Met Met Phe His Asn Cys Arg Ile Asn Asn Tyr Leu Ile Thr Ser 1 5 10 15

Gln Ile Gly Glu Gly Ala Tyr Gly Leu Val Tyr Arg Ala Leu Asp Ile 20 25 30

Arg Thr Asp Arg Gln Tyr Ala Ile Lys Ala Val Val Gln Ser Tyr Gly
35 40 45

Val Ser Lys Glu Ala Asp Met Gly Asn Asp Lys Ile His Lys Asn Ser 50 55 60

Val Lys Leu Gln Lys Lys Leu Ala Lys Leu Phe Lys Glu Ser Lys Asn 65 70 75 80

Val Val Arg Val Pro Ser Ile Asp Leu Glu Ser Ile Glu Asn Met Ser 85 90 95

Glu Glu Asp Phe Lys Lys Leu Pro His Tyr Lys Glu Ile Ser Leu His
100 105 110

Leu Arg Val His His Lys Asn Ile Val Thr Ile His Glu Val Leu 115 120 125

Gln Ser Ala Val Cys Thr Phe Ile Val Met Asp Tyr Tyr Pro Thr Asp 130 135 140

Leu Phe Thr Ser Ile Val Asp Asn Arg His Phe Val Thr Asn Gly Leu 145 150 155 160

Leu Val Lys Lys Val Phe Leu Gln Ile Cys Ser Ala Leu Asn Tyr Cys 165 170 175

His Glu His Gly Ile Tyr His Cys Asp Ile Lys Pro Glu Asn Leu Leu 180 185 190

Leu Asp Thr Glu Asp Asn Val Phe Leu Cys Asp Phe Gly Leu Ser Thr 195 200 205

Thr Ser Thr Tyr Ile Lys Pro Asn Val Cys Ile Gly Ser Ser Tyr Tyr 210 215 220

Met Pro Pro Glu Arg Ile Ser Phe Asp Gly Arg Val Ser Ser Lys 225 230 235 240 Ser Gly Gly His Lys Leu Gly Lys Val Cys Pro Ser Cys Asn Gly Asp 245 250 255

Leu Trp Ser Leu Gly Ile Ile Leu Ile Asn Leu Thr Cys Ile Arg Asn 260 265 270

Pro Trp Leu Lys Ala Asp Lys Thr Glu Asp Asn Thr Tyr Tyr Tyr Phe 275 280 285

Thr Lys Asp Pro Asn Ile Leu Lys Gln Ile Leu Pro Leu Ser Asp Asp 290 295 300

Phe Tyr Ser Leu Leu Ser Lys Ile Leu Gln Val Asn Pro Lys Asn Arg 305 310 315 320

Met Ser Leu Gln Glu Leu Met Lys Glu Val Ser Ser Ile Thr Ser Phe 325 330 335

Thr Asn Glu Gly Pro Leu Ser Lys Val Pro Pro Leu Ser Lys Ser Val
340 345 350

Tyr Glu Lys Phe Val Ser Pro Val Asp Asn Thr Asn Glu Asn Leu Ser 355 360 365

Pro Lys Ser Tyr Val Tyr Met His Asp Ser Lys Ala Ala Lys Asn Leu 370 375 380

Ser Tyr Thr Ser Ser Ser Glu Glu Glu Asp Gly Ile Lys Glu Gly Ile 385 390 395 400

Asp Asp Asp Asn Gly Ser Arg Ser Gly Ser Phe Gly Thr Leu Asp Thr 405 410 415

Asp Thr Gly Leu His Ser Ser Phe Thr Ser Thr Ser Cys Glu Ser Asp 420 425 430

Asn Glu Cys Ser Lys Ile Ser Asn Lys Phe Ser Leu Phe Glu Lys Lys 435 440 445

Phe Asn Glu Leu Arg Met Ser Ser Ser Ser Leu Thr Asn 450 455 460

<210> 20

<211> 470

<212> PRT

<213> Schizosaccharomyces pombe

<400> 20

Met Met Arg Glu Asn Pro Glu Leu Leu Gly Gln Val Leu Gly Asp '1 5 10 15

Ser Leu Arg Phe Val Ser Ile Ile Gly Ala Gly Ala Tyr Gly Val Val 20 25 30

Tyr Lys Ala Glu Asp Ile Tyr Asp Gly Thr Leu Tyr Ala Val Lys Ala
35 40 45

Leu Cys Lys Asp Gly Leu Asn Glu Lys Gln Lys Lys Leu Gln Ala Arg 50 55 60

Glu Leu Ala Leu His Ala Arg Val Ser Ser His Pro Tyr Ile Ile Thr 65 70 75 80

Leu His Arg Val Leu Glu Thr Glu Asp Ala Ile Tyr Val Val Leu Gln 85 90 95

Tyr Cys Pro Asn Gly Asp Leu Phe Thr Tyr Ile Thr Glu Lys Lys Val

Tyr Gln Gly Asn Ser His Leu Ile Lys Thr Val Phe Leu Gln Leu Ile
115 120 125

Ser Ala Val Glu His Cys His Ser Val Gly Ile Tyr His Arg Asp Leu 130 135 140

Lys Pro Glu Asn Ile Met Val Gly Asn Asp Val Asn Thr Val Tyr Leu 145 150 155 160

Ala Asp Phe Gly Leu Ala Thr Thr Glu Pro Tyr Ser Ser Asp Phe Gly 165 170 175

Cys Gly Ser Leu Phe Tyr Met Ser Pro Glu Cys Gln Arg Glu Val Lys 180 185 190

Lys Leu Ser Ser Leu Ser Asp Met Leu Pro Val Thr Pro Glu Pro Ile 195 200 205

Glu Ser Gln Ser Ser Ser Phe Ala Thr Ala Pro Asn Asp Val Trp Ala 210 215 220

Leu Gly Ile Ile Leu Ile Asn Leu Cys Cys Lys Arg Asn Pro Trp Lys 225 230 235 240

Arg Ala Cys Ser Gln Thr Asp Gly Thr Tyr Arg Ser Tyr Val His Asn 245 250 255

Pro Ser Thr Leu Leu Ser Ile Leu Pro Ile Ser Arg Glu Leu Asn Ser 260 265 270

Leu Leu Asn Arg Ile Phe Asp Arg Asn Pro Lys Thr Arg Ile Thr Leu 275 280 285

Pro Glu Leu Ser Thr Leu Val Ser Asn Cys Lys Asn Leu Thr Arg Arg 290 295 300

Leu Arg Pro Ala Pro Leu Val Ser Ser Arg Tyr Leu Ala Tyr Gln Gln 305 310 315 320

Gln Gln Gln Gln Gln Met Asn Leu Gln Gln Gly Ile Gln Gly Tyr 325 330 335

Pro His Gln Gly Tyr Met Pro Thr Gln Asn Ile Gly Phe Pro Trp Pro 340 345 350

Pro Thr Pro Gln Phe Val Ser Asn Trp Asn His Cys Ala Thr Pro Thr 355 360 365

Ile Pro Val Ser Leu Gln Val Leu Thr Pro Asn Ser Ser Leu Lys Val 370 375 380

Asp Pro Thr Thr Pro Leu Thr Ala Pro Ile His Ala Thr Glu Ser Phe 385 390 395 400

Trp Pro Ser Ala Ala Ala Ala Ala Ala Val His Asn Asn Ala Asn 405 410 415

Ser Tyr Met Pro Ile Thr Pro Thr Pro Tyr Pro Asn Asn Ala Lys Ile 420 425 430

Phe Gly Tyr Pro Asn Gln Pro Pro Leu Thr Pro Ile Pro Phe Thr Gly 435 440 445

Phe Val Leu His Pro Ala Pro Val Gly Arg Ala Ala Asp Ala Val Asp 450 455 460

Pro Ser Arg Lys Ser Leu 465 470

<210> 21

<211> 474

<212> PRT

<213> Schizosaccharomyces pombe

<400> 21

Met Lys Leu Gln Lys Lys Gly Tyr Lys Val Glu Arg Pro Leu Asn 1 5 10 15

Lys Gly Ser Tyr Gly Thr Val Val Leu Ala His Arg Leu Phe Arg Thr 20 25 30

Pro Arg Cys Lys Asp Leu Lys Tyr Ala Ile Lys Cys Ile Lys Lys Pro 35 40 45

Ala Tyr Thr Phe Leu Gln Glu Val Asn Ile Leu Arg Gln Leu Ser Arg 50 55 60

Ser Arg His Arg Asn Ile Ile His Phe Val Glu Ser Phe Glu Asp Asn 65 70 75 80

Val Tyr Tyr Val Val Leu Glu Tyr Cys Pro Leu Gly Asp Leu Tyr
85 90 95

Glu Cys Ile Leu Asn Asn Asp Phe Pro Asn Ala Lys Asn Gln Pro Glu
100 105 110

Met Ile Lys Asn Ile Phe Leu Gln Ile Ile Asp Gly Val Ala His Leu 115 120 125

His Ser His Gly Ile Tyr His Arg Asp Leu Lys Pro Glu Asn Phe Leu 130 135 140

- Leu Ser Leu Ser Glu Asp Gly Ser Glu Leu Val Val Lys Ile Ser Asp 145 150 155 160
- Phe Gly Leu Ala Cys Arg Asp Lys Ile Ser Tyr Asp Phe Gly Thr Gly 165 170 175
- Ser Asp Arg Tyr Met Ala Pro Glu Gln Phe Glu Glu Val Asp Gly Ala 180 185 190
- Gly Tyr Ser Pro Arg Ala Ala Asp Ile Trp Ala Leu Gly Ile Cys Leu 195 200 205
- Leu Asn Leu Ile Phe Ala Arg Asn Pro Phe Thr Tyr Pro His Glu Lys 210 215 220
- Asp Pro Ile Phe Ala Asp Tyr Met Leu Asp Ala Met Thr Leu Phe Asp 225 230 235 240
- Val Phe Pro Thr Leu Ser Gln Asp Thr Tyr Asn Val Leu Arg Ala Cys 245 250 255
- Leu Cys Val Ser Pro Glu Lys Arg Ser Leu Ala Lys Thr Arg Glu Ala 260 265 270
- Val Leu Ala Val Thr Lys Trp Thr Thr Asp Asp Glu Glu Leu Glu Ser 275 280 285
- Phe Val Asn Glu Glu Glu Phe Arg Ala Ser Asp Phe Met Pro Ala 290 295 300
- Glu Asp Asn Val Arg Cys Thr Gln Ser Asp Arg Glu Pro Leu Arg Thr 305 310 315 320
- Pro Ser Val Leu Thr Pro Ala Asn Thr Ile Gln Arg Gly Leu Leu Pro 325 330 335
- Ser Lys Leu Pro Ala Leu Ser Asp Val Asp Glu Asn Ile Ser Thr Ser 340 345 . 350
- Ser Ser Pro Arg Ser Pro Ala Ser Leu Ala Pro Val Asn Asn Ser Glu 355 360 365
- Arg Ser Tyr Asp Ser Gly Leu Gly Glu Ser Leu Asn Asn Met His Ile 370 375 380
- Gly Lys Ser Ile Ala Thr Ala Val Pro Val Asn Thr Lys Arg Ser Pro 385 390 395 400
- Tyr Ser Cys Ser Ala Pro Ala Ile Val Phe Pro Asn Ser Ile Lys Gly
  405 410 415
- Asn Lys Asp His Leu Lys Phe Gly Arg Ser Trp Cys Asp Met Asp Glu
  420 425 430
- Glu Asp Glu Glu Asp Ile Val Ser Phe Gly Ser Asn Asp Asp Phe Gly
  435
  440
  445

Ala Ser Asp Glu Leu Ser Ser Lys His Ile Gly Leu Ala Asp Asp Trp 450 455 460

Asn Val Leu Ser Gln Trp Asn Asp Asn Ser 465 470

<210> 22

<211> 413

<212> PRT

<213> Pichia jadinii

<400> 22

Met Thr His Thr Asp Ile Thr Gly Ser Leu Ile Asn Glu Tyr Arg Ile
1 10 15

Val Lys Leu Ile Gly Ser Gly Ala Tyr Gly Leu Val Tyr Gln Ala Gln 20 25 30

Asn Thr Val Thr Gly Gln Gln Val Ala Ile Lys Cys Ile Ser Lys Lys 35 40 45

Ser Asn Pro Ser Val Lys Lys Gln Ser Asp Tyr Leu Thr Thr Leu Leu 50 55 60

Ala Glu His Leu Leu Glu Arg Asp Phe Ser Leu Gln Gly Leu Arg Glu 65 70 75 80

Met Ser Leu Lys Arg Leu Ser Met Ala Asp Asn Ile Pro Cys Pro Phe 85 90 95

Val Arg Glu Ile Ser Ile His Leu Gln Val His Gln His Pro Asn Val 100 105 110

Ile Ser Ile His Lys Ile Leu Asp Ser Gln Val Ala Val Phe Val Val 115 120 125

Met Asp Tyr Tyr Pro Glu Gly Asp Leu Phe Val Asn Ile Val Asp Arg 130 135 140

Gln Val Tyr Ala Arg Ser Ser Gly Leu Ile Lys Asp Val Phe Ile Gln 145 150 155 160

Leu Ile Asp Val Ile Ser Tyr Cys His Ser Lys Gly Ile Tyr His Cys 165 170 175

Asp Ile Lys Pro Glu Asn Ile Met Cys Ala Asn Lys Gly Ser Lys Val 180 185 190

Val Ile Gly Asp Phe Gly Leu Ala Val Lys Ser Lys Tyr Ile Gln Ser 195 200 205

Lys Thr Cys Ile Gly Ser Ser Tyr Tyr Met Ala Pro Glu Arg Leu Cys 210 215 220

Thr Met Asn His Ser Leu Thr Arg Leu Glu Tyr Pro Ala Cys Lys Gly 225 230 235 240

Asp Ile Trp Ser Leu Gly Val Ile Leu Ile Asn Phe Cys Cys Thr Arg 245 250 255

Asn Pro Trp Met Lys Ala Cys Glu Lys Asp Ala Thr Tyr Ser Ala Phe 260 265 270

Lys Lys Asp Pro Lys Ile Leu Met Glu Ile Leu Asp Ile Ser Glu Glu 275 280 285

Leu Trp Asn Ile Leu Cys Asp Cys Phe Arg Glu Glu Pro Glu Glu Arg 290 295 300

Ile Ser Leu Phe Glu Leu Arg Asp Arg Val Leu Lys Cys Arg Ser Phe 305 310 315 320

Thr Val Ala Gly Pro Leu Ser Arg Cys Asp Ser Tyr Glu Gln Asp Met 325 330 335

Asp Asp Ala Leu Glu Cys Ala Val Pro Ala Asn Glu Ser Ser Val Gly 340 345 350

Ser Asn Gly Ser Leu Asp Leu Pro Met Asp His Ile Ile Glu Tyr Ala 355 360 365

Gln Tyr Leu Gln Thr Leu Ser Ser Val Lys Asn Thr Ala Ala Gly Asn 370 375 380

Tyr Thr Gln Asn Gln Phe Val Leu Asp Asn Asn Ile Met Asp Asn Val 385 390 395 400

Ser Ile Met Ser Asn Lys Ser Phe Asn Met Asn Phe Ala 405 410

<210> 23

<211> 506

<212> PRT

<213> Nectria haematococca

<400> 23

Met Gln His His Ala Ile Phe Gly Tyr Gln Thr Pro Pro Ala Ser Pro 1 5 15

Gly Phe Asp Asn Pro Lys Cys Thr Ile Gln Gln Pro Phe Ala Val Pro 20 25 30

Arg His Tyr Pro Thr Arg Pro Leu Ala Pro Glu Glu Arg Leu Gly Arg
35 40 45

Val Leu Glu Gly Thr Leu Gln Leu Thr Glu Ile Leu Gly Thr Gly Ala 50 55 60

Tyr Gly Val Val Tyr Leu Ala Val Asp Leu Lys Thr Gly Gly Lys Tyr
65 70 75 80

Ala Val Lys Cys Leu Ser Lys Phe Asn Ala Asp Gly Thr Gln Leu Glu 85 90 95

- Pro Arg Gln Phe Ala Tyr Gln Gln Arg Glu Ile Arg Leu His Trp Lys
  100 105 110
- Ala Ser Asn His Ala Asn Val Val Gln Met Leu Lys Ile Val Asn Asp 115 120 125
- Pro Asp Cys Ile Tyr Val Ile Leu Glu Tyr Cys Pro Glu Gly Asp Leu 130 135 140
- Phe Leu Asn Ile Thr Glu Arg Gly Gln Tyr Val Gly Lys Asp Glu Leu 145 150 155 160
- Ser Arg Asn Ile Phe Leu Gln Ile Leu Asp Ala Val Glu His Cys His 165 170 175
- Asn Leu Gly Ile Tyr His Arg Asp Leu Lys Pro Glu Asn Ile Leu Val 180 185 190
- Thr Asp Arg Gly Asp Thr Val Lys Leu Ala Asp Phe Gly Leu Ala Thr 195 200 205
- Ser Asp Asp Arg Ser Glu Asp Tyr Gly Cys Gly Ser Thr Phe Tyr Met 210 215 220
- Ser Pro Glu Cys Leu Asp Pro Ser Ala Arg Lys Pro Tyr Tyr Met Cys 225 230 235 240
- Ala Pro Asn Asp Val Trp Ser Leu Gly Val Ile Leu Val Asn Leu Thr 245 250 255
- Cys Gly Arg Asn Pro Trp Lys Gln Ala Ser Phe Gln Asp Ser Thr Tyr 260 265 270
- Arg Ala Tyr Ala Gly Ser Lys Asp Phe Leu Lys Thr Ile Leu Pro Leu 275 280 285
- Ser Asp Glu Leu Asn Glu Ile Leu Gly Arg Ile Phe Glu Pro Asn Pro 290 295 300
- Glu Gln Arg Ile Thr Leu Asn Glu Leu Arg Thr Arg Ile Met Ala Cys 305 310 315 320
- Ser Arg Phe Thr Met Pro Ala Val Ser Pro Pro Thr Pro Pro Ala Ser 325 330 335
- Pro Asp His Thr Thr Gln Tyr Val Ser Thr Glu Asp Ala Ile Ile Asp 340 345 350
- Asp Tyr Asp Tyr Asp Ser Pro Leu Ser Pro Ala Ser Ser Ser Asp Asp 355 360 365
- Glu Gly Ser Leu Thr Ser Ser Gly Ser Thr Ile Asp Asp Leu Asp Asp 370 375 380
- Asp Phe Asp Gln Glu Arg Gln Met Pro Gln Thr Pro Pro Glu Tyr Ala 385 390 395 400

Pro His Ala Phe Asp Pro Glu Glu Pro Lys Glu His Gln Leu Ile Tyr
405 410 415

His Ser Gln Glu Phe Val Pro Gln Lys Tyr Ser Gly Pro Val Pro Val
420 425 430

Pro Val Gln Val Pro Val Gly Val Pro Pro Gln Pro Met Leu Cys Gln 435 440 445

Pro Val Pro Val Pro Ile Gln Ala Pro Val Pro Ile Gln Ala Pro Cys 450 455 460

Gln Gln His Lys Ser Tyr Phe Pro Ile Trp Asp Met Val Lys Tyr Val 465 470 475 480

Gln His Val Pro Ile Leu Gln His His Ile Pro Phe His Gln Gln Val 485 490 495

Pro Phe Met Pro Thr Phe Gln Gly Cys Tyr
500 505

<210> 24

<211> 315

<212> PRT

<213> Candida albicans

<400> 24

Asp Leu Cys Tyr Ala Asn Ser Ile Ile Asp Tyr Asn Glu Leu His Leu 1 5 10 15

Val Leu Ile Asp Phe Gly Leu Ala Met Asp Ser Ala Thr Ile Cys Cys 20 25 30

Asn Ser Cys Arg Gly Ser Ser Phe Tyr Met Ala Pro Glu Arg Thr Thr 35 40 45

Asn Tyr Asn Thr His Arg Leu Ile Asn Gln Leu Ile Asp Met Asn Gln 50 55 60

Tyr Glu Ser Ile Glu Ile Asn Gly Thr Thr Val Thr Lys Ser Asn Cys 65 70 75 80

Lys Tyr Leu Pro Thr Leu Ala Gly Asp Ile Trp Ser Leu Gly Val Leu 85 90 95

Phe Ile Asn Ile Thr Cys Ser Arg Asn Pro Trp Pro Ile Ala Ser Phe 100 105 110

Asp Asn Asn Gln Asn Asn Glu Val Phe Lys Asn Tyr Met Leu Asn Asn 115 120 125

Asn Lys Ala Val Leu Ser Lys Ile Leu Pro Ile Ser Ser Gln Phe Asn 130 135 140

Arg Leu Leu Asp Arg Ile Phe Lys Leu Asn Pro Asn Asp Arg Ile Asp 145 150 155 160

Leu Pro Thr Leu Tyr Lys Glu Val Ile Arg Cys Asp Phe Phe Lys Asp 165 170 175

Asp His Tyr Tyr Tyr Ala Gln His Gln His His His Asn His Asn Gln 180 185 190

Ile Asn Asn Ala Tyr Asn His Tyr Gln Lys Gln Pro Asn Gln Ala Arg 195 200 205

Pro Thr Ala Asn Gln Gln Leu Tyr Thr Pro Pro Glu Thr Thr Tyr 210 215 220

Asn Ser Tyr Ala Ser Asp Met Glu Glu Asp Glu Ile Ser Asp Asp Glu 225 230 235 240

Phe Tyr Ser Asp Glu Glu Asp Glu Asp Ile Glu Asp Tyr Glu Glu Glu 245 250 255

Glu Glu Glu Tyr Phe Gly Asn Glu Gln Gln Gln Gln Gln Gln Val Thr 260 265 270

Thr Val Asn Gly Asn Phe Gly Gln Val Lys Gly Thr Cys Tyr Tyr Asp 275 280 285

Thr Lys Thr Lys Thr Thr Tyr Ile Lys Pro Pro Ala Ala Tyr Thr 290 295 300

Leu Glu Thr Pro Ser Gln Ser Val Glu Tyr Cys 305 310 315

<210> 25

<211> 640

<212> PRT

<213> Saccharomyces cerevisiae

<400> 25

Met Ser Pro Arg Gln Leu Ile Pro Thr Leu Ile Pro Glu Trp Ala Pro 1 5 10 15

Leu Ser Gln Gln Ser Cys Ile Arg Glu Asp Glu Leu Asp Ser Pro Pro 20 25 30

Ile Thr Pro Thr Ser Gln Thr Ser Ser Phe Gly Ser Ser Phe Ser Gln 35 40 45

Gln Lys Pro Thr Tyr Ser Thr Ile Ile Gly Glu Asn Ile His Thr Ile 50  $\,$  55  $\,$  60

Leu Asp Glu Ile Arg Pro Tyr Val Lys Lys Ile Thr Val Ser Asp Gln 65 70 75 80

Asp Lys Lys Thr Ile Asn Gln Tyr Thr Leu Gly Val Ser Ala Gly Ser 85 90 95

Gly Gln Phe Gly Tyr Val Arg Lys Ala Tyr Ser Ser Thr Leu Gly Lys 100 105 110

- Val Val Ala Val Lys Ile Ile Pro Lys Lys Pro Trp Asn Ala Gln Gln 115 120 125
- Tyr Ser Val Asn Gln Val Met Arg Gln Ile Gln Leu Trp Lys Ser Lys 130 135 140
- Gly Lys Ile Thr Thr Asn Met Ser Gly Asn Glu Ala Met Arg Leu Met 145 150 155 160
- Asn Ile Glu Lys Cys Arg Trp Glu Ile Phe Ala Ala Ser Arg Leu Arg 165 170 175
- Asn Asn Val His Ile Val Arg Leu Ile Glu Cys Leu Asp Ser Pro Phe
  180 185 190
- Ser Glu Ser Ile Trp Ile Val Thr Asn Trp Cys Ser Leu Gly Glu Leu 195 200 205
- Gln Trp Lys Arg Asp Asp Glu Asp Ile Leu Pro Gln Trp Lys Lys 210 215 220
- Ile Val Ile Ser Asn Cys Ser Val Ser Thr Phe Ala Lys Lys Ile Leu 225 230 235 240
- Glu Asp Met Thr Lys Gly Leu Glu Tyr Leu His Ser Gln Gly Cys Ile 245 250 255
- His Arg Asp Ile Lys Pro Ser Asn Ile Leu Leu Asp Glu Glu Glu Lys
  260 265 270
- Val Ala Lys Leu Ser Asp Phe Gly Ser Cys Ile Phe Thr Pro Gln Ser 275 280 285
- Leu Pro Phe Ser Asp Ala Asn Phe Glu Asp Cys Phe Gln Arg Glu Leu 290 295 300
- Asn Lys Ile Val Gly Thr Pro Ala Phe Ile Ala Pro Glu Leu Cys His 305 310 315 320
- Leu Gly Asn Ser Lys Arg Asp Phe Val Thr Asp Gly Phe Lys Leu Asp 325 330 335
- Ile Trp Ser Leu Gly Val Thr Leu Tyr Cys Leu Leu Tyr Asn Glu Leu 340 345 350
- Pro Phe Phe Gly Glu Asn Glu Phe Glu Thr Tyr His Lys Ile Ile Glu 355 360 365
- Val Ser Leu Ser Ser Lys Ile Asn Gly Asn Thr Leu Asn Asp Leu Val 370 375 380
- Ile Lys Arg Leu Leu Glu Lys Asp Val Thr Leu Arg Ile Ser Ile Gln 385 390 395 400
- Asp Leu Val Lys Val Leu Ser Arg Asp Gln Pro Ile Asp Ser Arg Asn
  405
  410
  415

His Ser Gln Ile Ser Ser Ser Ser Val Asn Pro Val Arg Asn Glu Gly
420 425 430

Pro Val Arg Arg Phe Phe Gly Arg Leu Leu Thr Lys Lys Gly Lys Lys 435 440 445

Lys Thr Ser Gly Lys Gly Lys Asp Lys Val Leu Val Ser Ala Thr Ser 450 455 460

Lys Val Thr Pro Ser Ile His Ile Asp Glu Glu Pro Asp Lys Glu Cys
465 470 475 480

Phe Ser Thr Thr Val Leu Arg Ser Ser Pro Asp Ser Ser Asp Tyr Cys
485 490 495

Ser Ser Leu Gly Glu Glu Ala Ile Gln Val Thr Asp Phe Leu Asp Thr 500 505 510

Phe Cys Arg Ser Asn Glu Ser Leu Pro Asn Leu Thr Val Asn Asn Asp 515 520 525

Lys Gln Asn Ser Asp Met Lys Thr Asp Arg Ser Glu Ser Ser His 530 540

Ser Ser Leu Lys Ile Pro Thr Pro Ile Lys Ala Met Ile Arg Leu Lys 545 550 555 560

Ser Ser Pro Lys Glu Asn Gly Asn Arg Thr His Ile Asn Cys Ser Gln 565 570 575

Asp Lys Pro Ser Ser Pro Leu Met Asp Arg Thr Val Gly Lys Arg Thr 580 585 590

Val Asn Asn Ser Gly Ala Arg Lys Leu Ala His Ser Ser Asn Ile Leu 595 600 605

Asn Phe Lys Ala Tyr Ile Asn Ser Glu Asp Ser Asp Ile Arg Glu Thr 610 615 620

Val Glu Asp Val Lys Thr Tyr Leu Asn Phe Ala Asp Asn Gly Gln Ile 625 630 635 640

<210> 26

<211> 1142

<212> PRT

<213> Saccharomyces cerevisiae

<400> 26

Met Asp Arg Ser Asp Lys Lys Val Asn Val Glu Glu Val Asn Val Pro 1 5 10 , 15

Ser Asn Leu Gln Ile Glu Leu Glu Lys Ser Gly Thr Ser Ser Val 20 25 30

Ser Leu Arg Ser Pro Thr Lys Ser Ser Ala Thr Asn Leu Ala Gly Met
35 40 45

- Ala Glu Gly Ala Arg Asp Asn Ala Ser Ile Ala Ser Ser Ser Val Asp
  50 55 60
- Ser Leu Asn Met Leu Leu Glu Arg Gln Arg Val Arg Gln Leu Asn His 65 70 75 80
- Pro Gln His Gln Gln His Ile Ser Ser Leu Ala Lys Thr Pro Thr 85 90 95
- Thr Thr Ser Ser Phe Cys Ser Ser Gly Ser Ser Lys Asn Lys Val Lys
  100 105 110
- Glu Thr Asn Arg Ile Ser Leu Thr Tyr Asp Pro Val Ser Lys Arg Lys
  115 120 125
- Val Leu Asn Thr Tyr Glu Ile Ile Lys Glu Leu Gly His Gly Gln His 130 135 140
- Gly Lys Val Lys Leu Ala Arg Asp Ile Leu Ser Lys Gln Leu Val Ala 145 150 155 160
- Ile Lys Ile Val Asp Arg His Glu Lys Lys Gln Arg Lys Phe Phe Thr 165 170 175
- Phe Ile Lys Ser Ser Lys Ile Ser Glu Asn Asp Lys Ile Lys Arg Glu
  180 185 190
- Ile Ala Ile Met Lys Lys Cys His His Lys His Val Val Gln Leu Ile 195 200 205
- Glu Val Leu Asp Asp Leu Lys Ser Arg Lys Ile Tyr Leu Val Leu Glu 210 215 220
- Tyr Cys Ser Arg Gly Glu Val Lys Trp Cys Pro Pro Asp Cys Met Glu 225 230 235 240
- Ser Asp Ala Lys Gly Pro Ser Leu Leu Ser Phe Gln Glu Thr Arg Glu 245 250 255
- Ile Leu Arg Gly Val Val Leu Gly Leu Glu Tyr Leu His Tyr Gln Gly 260 265 270
- Ile Ile His Arg Asp Ile Lys Pro Ala Asn Leu Leu Ile Ser Gly Asp 275 280 285
- Gly Thr Val Lys Ile Ser Asp Phe Gly Val Ser Leu Ala Ala Ser Ser 290 295 300
- Thr Asn Ser Ser Asp Ser Ser Glu Ser Leu Asp Glu Leu Glu Leu Ala 305 310 315 320
- Lys Thr Val Gly Thr Pro Ala Phe Phe Ala Pro Glu Met Cys Leu Gly 325 330 335
- Glu Asp Ala Phe Thr Arg Tyr Asn Leu Thr Lys Glu Asn Leu Phe Arg

- Gly Ser Cys Ile Ser Phe Met Ile Asp Ile Trp Ala Val Gly Val Thr 355 360 365
- Leu Tyr Cys Leu Leu Phe Gly Met Leu Pro Phe Phe Ser Asp Phe Glu 370 375 380
- Leu Lys Leu Phe Glu Lys Ile Val Asn Asp Pro Leu Lys Phe Pro Thr 385 390 395 400
- Phe Lys Glu Ile Gln Ser Asn Lys Val Ser Lys Val Ser Cys Glu Glu
  405 410 415
- Glu Tyr Glu Met Ala Lys Asp Leu Leu Leu Lys Leu Leu Glu Lys Asn
  420
  430
- Pro Gln Lys Arg Met Thr Ile Pro Ala Ile Lys Lys His Pro Phe Val 435 440 445
- Ser Trp Asp Phe Asp His Val Pro Glu Asn Asp Glu Lys Leu Leu Ser 450 455 460
- Ser Val Leu Glu Gln Lys Leu Arg Phe Gln Cys Asn Gln Thr Asp Gln 465 470 475 . 480
- Phe Glu Pro Ile Ser Ile Ser Lys His Glu Leu Lys Asn Ala Val Ser 485 490 495
- Gly Val Gly Lys Lys Ile Lys Glu Ser Val Leu Lys Ser Ile Pro Leu 500 505 510
- Lys Asp Pro Ser Asp Leu Ser Asn Lys Asn Tyr Leu His Pro Thr Glu 515 520 525
- Thr Thr Arg Gly Arg Gly Asp Ala Asn Val Ile Val Ser Glu Gly Ser 530 535 540
- Val Leu Ser Asn Ile Lys Glu Leu Ser Ala Asn Asp Gly Cys Leu Asn 545 550 555 560
- Thr Asp Ser Asp Thr Asn Ile Asn Ile Asn Asp Asp Asp His Tyr Ser 565 570 575
- Gly Asp Asp Asn Asp Gly His Leu Thr Lys Arg Glu Leu Glu Arg Glu 580 585 590
- Leu Asn Lys Phe Asp Asp Lys His Glu Ala Gly Asn Met Val Asn Leu 595 600 605
- Pro Ile Asn Ser Ser Phe Ala Ser Leu Asp Ser Phe Tyr Ile Asp Asn 610 615 620
- Phe Ala Met Ala Arg Met Gly Met Ser Ser Pro Glu Ala Gly Asp Ser 625 630 635 640
- Val Ser Ser Val Pro Asn Leu Pro Ser Ala Pro Ser Ser Thr Arg Leu 645 650 655

- Gly Arg Ser Pro Val Phe Ser Gly Val Thr Asn Gln Pro Ser Pro Ile 660 665 670
- Arg Pro Val Leu Pro Gln Gln Lys Ser Ser Phe Cys Ala Thr Gly Arg 675 680 685
- Tyr Asp Lys Ser His Asn Ser Leu Leu Arg Asn Ser Ser Ser His Leu 690 695 700
- Thr Ser Tyr Asn Ser Gly Arg Pro Ser Ser Arg Thr Gly Arg Met Asn 705 710 715 720
- Ser Arg Asn Gln Asn Leu Pro Lys Ile Pro Asn Ser Leu Ser Lys Ile
  725 730 735
- Ser Thr Thr Lys Leu Thr Glu Leu Arg Val Pro Lys Asp Ser Glu Ile 740 745 750
- Pro Ser Pro Ala Lys Asn Pro Asn Ala Asp Arg Leu Arg Arg Phe Pro 755 760 765
- Val Lys Lys Asn Thr Lys Thr Pro Ala Ile Lys Asp Pro Pro Arg Ile 770 775 780
- Asn Ile Asn Ser Ser Asp Lys Ser Gly Ser Lys Asn Ser Pro Ile Lys 785 790 795 800
- Ser Leu Tyr Gln Arg Met Lys Gln Ser Lys Asp Asn Ser Lys Thr Phe 805 810 815
- Glu Val Arg Arg Gly Asn Phe Phe Ser His Phe Asn Gly Asp Asp Asp 820
- Asp Ser Ser Ser Gln Ser Ser Val Thr Ser Ser Gly Ser Glu Ser Asp
- Ser Glu Leu Ser Ser Thr Ser Ser Ser Cys Thr Ser Gly Thr Gln Ser 850 860
- Arg Asn Ser Ser Asn Asn Asn Ala Tyr Ser Glu Thr Glu Ser Leu Pro 865 870 875 880
- Phe Glu Phe Gly Val Asp Ser Glu Asp Gly Ser Gly Val Leu Leu Arg 885 890 895
- Asp Leu Pro Asn Glu Asp Gln Ile Arg Pro Phe Leu Asp Ile Gln Pro 900 905 910
- Cys Arg Arg Met Lys Val Lys Ser Ser Leu Asn Leu Glu Pro Pro Ser 915 920 925
- Val Ser Ser Ser Ser Ser Ser Ser Ser Asp Glu Asp Glu Leu Ile Leu 930 935 940
- Asn Val Gly Thr Ala Gly His Arg Arg His Asn Ser Ser Lys Leu 945 950 955 960

Ser Glu Leu Ser Asn Ser Pro Gln Lys Gly Ser Asn Asn Phe Met Tyr 965 970 975

Ser Asn Gly Ser Val His Asp Ser Glu Thr Thr Ile Thr Pro Gln Asn 980 985 990

Met Asp Asp Leu Thr Leu His Gln Ala Leu Ser Arg Ser Gln Pro Ile 995 1000 1005

Ser Lys Pro Gly Pro Leu Val Leu Pro Lys Arg Leu Asp Gln Lys Lys 1010 1015 1020

Ala Thr Thr Glu Thr Ser Asn Leu Thr Asp Ile Val Glu Phe Asn Gly 1025 1030 1035 1040

Asn Asn Asp His Arg Lys Asp Lys Asn Phe Asp Lys Val Leu Tyr Ser 1045 1050 1055

Arg Asp Leu Leu Lys Asp Ala Leu Ser Ser Thr Asn Ala Gly Arg Arg 1060 1065 1070

Arg Ser Ile Pro Ser Asn Lys Ile Arg Gly Arg Lys Asp Ala Ser Ile 1075 1080 1085

Thr Met Ser Thr Asn Val Gly Asn Asp Glu His Ala Arg Asn Thr Ser 1090 1095 1100

Cys His Gly Asp Lys Gly Gln Glu Asn Gly Ala Ile Lys Gln Arg Thr 1105 1110 1115 1120

His Glu Arg Ser Arg Ser Leu Thr Val Ala Glu Leu Asn Glu Glu Lys
1125 1130 1135

Arg Arg Ser Ala Leu Pro 1140

<210> 27

<211> 559

<212> PRT

<213> Saccharomyces cerevisiae

<400> 27

Met Val Leu Lys Glu Pro Val Gln Pro Leu Pro Arg Ser Ser Leu
1 5 10 15

Leu Tyr Asn Asn Ala Ser Asn Ser Ser Ser Arg Ile Lys Glu Thr Arg 20 25 30

Lys Val Lys Leu Leu Tyr Asn Pro Leu Thr Lys Arg Gln Ile Leu Asn . 35 40 45

Asn Phe Glu Ile Leu Ala Thr Leu Gly Asn Gly Gln Tyr Gly Lys Val
50 60

Lys Leu Ala Arg Asp Leu Gly Thr Gly Ala Leu Val Ala Ile Lys Ile 65 70 75 80

- Leu Asn Arg Phe Glu Lys Arg Ser Gly Tyr Ser Leu Gln Leu Lys Val 85 90 95
- Glu Asn Pro Arg Val Asn Gln Glu Ile Glu Val Met Lys Arg Cys His
  100 105 110
- His Glu Asn Val Val Glu Leu Tyr Glu Ile Leu Asn Asp Pro Glu Ser 115 120 125
- Thr Lys Val Tyr Leu Val Leu Glu Tyr Cys Ser Arg Gly Pro Val Lys 130 135 140
- Trp Cys Pro Glu Asn Lys Met Glu Ile Lys Ala Val Gly Pro Ser Ile 145 150 155 160
- Leu Thr Phe Gln Gln Ser Arg Lys Val Val Leu Asp Val Val Ser Gly
  165 170 175
- Leu Glu Tyr Leu His Ser Gln Gly Ile Thr His Arg Asp Ile Lys Pro 180 185 190
- Ser Asn Leu Leu Ile Ser Ser Asn Gly Thr Val Lys Ile Ser Asp Phe 195 200 205
- Gly Val Ala Met Ser Thr Ala Thr Gly Ser Thr Asn Ile Gln Ser Ser 210 215 220
- His Glu Gln Leu Leu Lys Ser Arg Ala Leu Gly Thr Pro Ala Phe Phe 225 230 235 240
- Ala Pro Glu Leu Cys Ser Thr Glu Lys Glu Tyr Ser Cys Ser Thr His 245 250 255
- Glu Ile Trp Ser Leu Gly Val Thr Ile Tyr Cys Leu Leu Phe Gly Lys 260 265 270
- Leu Pro Phe Asn Ala Asn Ser Gly Leu Glu Leu Phe Asp Ser Ile Ile 275 280 285
- Asn Lys Pro Leu Glu Phe Pro Ser Tyr Glu Glu Met Leu Asn Gly Ala 290 295 300
- Thr Ser Gly Ile Thr Met Glu Glu Tyr Thr Asp Ala Lys Asp Leu Leu 305 310 315 320
- Lys Lys Leu Leu Gln Lys Asp Pro Asp Lys Arg Ile Lys Leu Ala Asp 325 330 335
- Ile Lys Val His Pro Phe Met Cys His Tyr Gly Lys Ser Asp Ala Ala 340 345 350
- Ser Val Leu Thr Asn Leu Glu Thr Phe His Glu Leu Lys Val Ser Pro 355 360 365
- Pro Ser Ser Cys Lys Arg Val Glu Leu Val Ser Leu Pro Val Asn Ser 370 375 380

Ser Phe Ala Ser Leu Asp Ser Val Tyr Met Glu Asn Phe Asp His Asn 385 390 395 400

Asn Leu Arg Thr Gly Ala Asp Arg Asn Ser Thr Tyr Ser Pro Ser Ile 405 410 415

Tyr Asp Ala Asn Thr Leu Ser Pro Ser Ala Tyr His Asn Ile Gly Ser 420 425 430

Arg Glu Ser Ser Tyr Ser Ser Phe Ser Ser Phe Thr Ser Ser Thr Ala
435
440
445

Phe Ala Ser Gln Ile Ser Ile Gln Asp Ala Pro Ala Ile Gly Asp Gln 450 450

Gln Cys Leu Ile Gly Glu Ser Gly Ser Ser Leu Arg Val Asn Ser Cys 465 470 475 480

Glu Phe Pro Gln Tyr Thr Thr Met Ser Pro Val Gly Glu Tyr Pro Phe
485 490 495

Glu Ser Thr Glu Ala Ser Leu Ser Ser Thr Leu Thr Pro Val Gly Asn 500 505 510

Val Pro Gln Arg Ile Lys Ala His Leu Val Glu Gly Lys Ser Asn Ser 515 520 525

Lys Asp Asp Leu Arg Ile Glu Ala Asp Ala Ser Leu Val Phe Glu Ala 530 540

Ser Asp Ala Gln Arg Thr Arg Arg Arg Met Ser Leu Tyr Lys Leu 545 550 555

<210> 28

<211> 652

<212> PRT

<213> Schizosaccharomyces pombe

<400> 28

Met Gly Ser Val Asn Asn Glu Glu Lys Thr Leu Ile Glu Pro Gln Arg
1 5 10 15

Leu Leu Arg Lys Asn Thr Trp His Pro Glu Val Asp Asp Ser Glu Val
20 25 30

Pro Pro Ser Val Phe Pro Glu Tyr Pro Val His Lys Ala Ile Gln Lys
35 40 45

Thr Ser Asp Ser Phe Arg Lys Arg Asn Tyr Ser Ala Gly Asp Tyr Val
50 55 60

Ile Ala Pro Leu Gly Gly Glu Arg Glu Gly Ser Ser Leu Thr His Ser 65 70 75 80

Trp Thr Phe Gln Pro Gly Lys His Asn Gln Arg Leu Tyr Ser Asp Asn 85 90 95

- Phe Gln Glu Ala Gln Arg Gln Trp Lys Arg Leu Gln Glu Trp Gly Glu
  100 105 110
- Val Lys Glu Thr Lys Lys Ile Arg Lys Arg Phe Asp Arg Phe Ser Gly 115 120 125
- Arg Lys Tyr Ile Asn His Tyr Glu Ile Ile Lys Glu Leu Gly Arg Gly 130 135 140
- Met His Gly Lys Val Lys Leu Gly Arg Asp Thr Val Thr Arg Glu Leu 145 150 155 160
- Leu Ala Ile Lys Ile Ile Pro Lys Thr Glu Arg Arg Pro Lys Leu Gly
  165 170 175
- Arg Ala Asn Ala Ser Ser Gln Lys Glu Lys Val Arg Arg Glu Ile Ala 180 185 190
- Ile Leu Lys Lys Cys Val His Pro Asn Val Val Arg Leu Arg Glu Val
  195 200 205
- Ile Asp Asp Pro Ser Ser Thr Lys Val Tyr Leu Val Leu Glu Tyr Met 210 215 220
- Ser Gly Glu Val Pro Trp Thr Asp Cys Asp Ser Pro Val Leu Ser 225 230 235 240
- Ile Ser Glu Ala Arg Gln Tyr Phe Arg Asp Val Val Leu Gly Leu Glu 245 250 255
- Tyr Leu His Tyr Gln Gly Ile Ile His Arg Asp Ile Lys Pro Ala Asn 260 265 270
- Leu Leu Leu Asn Ser Ser Asn Cys Val Lys Ile Ser Asp Phe Gly Val 275 280 285
- Ser Tyr Ile Ala Asn Ala Gly Leu Asn Glu Asp Asn Asp Val Glu Leu 290 295 300
- Ala Lys Thr Val Gly Thr Pro Ala Phe Phe Ala Pro Glu Leu Cys Trp 305 310 315 320
- Thr Asp Leu Asp Arg Pro Arg Pro Lys Ile Ser Glu Ala Ile Asp Val 325 330 335
- Trp Ala Leu Gly Val Thr Leu Phe Cys Leu Leu Phe Gly Arg Cys Pro 340 345 350
- Phe Asn Ala Ser Met Glu Tyr Glu Leu Phe Asp Lys Ile Val Asn Glu 355 360 365
- Arg Leu Asn Ile Pro Ser Thr Pro Asp Ile Gly Glu Glu Gly Arg Asp 370 375 380
- Leu Leu Lys Arg Leu Leu Cys Lys Asp Pro Glu Gln Arg Ile Thr Leu 385 390 395 400

Val Glu Val Lys Leu His Pro Trp Thr Leu Asp Gly Leu Lys Asp Pro 405 410 415

Glu Lys Trp Leu Gln Asn Thr Asp Pro Ser Thr Val Ser Arg Val Glu
420 425 430

Val Ser Thr Asp Glu Val Ala Ser Ala Ile Ser Leu Val Gly Arg Leu 435 440 445

Arg Lys Leu Gly Lys Leu Phe Arg Phe Arg Pro Lys Ala Arg 450 455 460

Val Phe Asp Ser Ser Ser Ser Val Pro Ser Asp Ser Ser Ile Cys Arg 465 470 475 480

Pro Glu Ser Ser Gly Asn Ser Ser Ile Gly Leu Ser Ala Ser Glu Leu
485 490 495

Ser Asp Ser Phe Asn Arg Leu Ala Val Asn Glu Ser Gln Lys Asp Arg 500 505 510

Glu Arg Lys Gln Val His Pro Val Glu Met Gly Arg Asn Ser Ser Glu 515 520 525

Lys Lys Pro Arg Cys Asp Phe Gly Trp Asp Tyr Glu Ala Phe Pro Asn 530 535 540

Asp Asn Gln Asp Ala Asp Asp Ala Cys Ser Tyr Asn Thr Gly Asp Ser 545 550 555 560

Ile Pro Gln Val Ser Lys Ser Ile Asn Gly His Phe Glu Thr Tyr Ser 565 570 575

Arg Thr Ser Met Asp Thr Asp Asp Val Ala Ser Phe Glu Ser Pro Asn 580 585 590

Ala Lys His Glu Glu Ser Gly Met Pro Val Val Thr Phe Arg Asn Tyr 595 600 605

Glu Asn Tyr Asp Ala Asn Pro Ser Asn Phe His Pro Val Val Pro Gly 610 615 620

Phe Val Ser Ser Pro Asn Leu His Leu Ala Gly Gly Ser Asp Thr Pro 625 630 635 640

Ile Tyr Cys Ile Glu His Ser Phe Thr Pro Thr Asn 645 650

<210> 29

<211> 1408

<212> PRT

<213> Candida albicans

<400> 29

Met Ser Thr Ser Leu Ser His Gln Glu Leu Ser Thr Glu Lys Gly Gln
1 5 10 15

- Ser Cys Pro Pro Ile Pro Asp Ser Asn Pro Leu Asn Pro Lys Ser Pro 20 25 30
- Ala Leu Arg Thr Thr Ser Asn Ser Thr Ile Leu Asn Ser Pro Ile Glu 35 40 45
- Thr Ile Asn Val Asn Thr Ser Ser Lys Ser Asn Ile Ser Gly Glu Ser 50 55 60
- Thr Ile Asn Gly Ser Ala Tyr Ser Asn Ser Thr Thr Val Val Gln Pro 65 70 75 80
- Glu Val Phe Gly Glu Ala His Thr Thr Thr Ser Thr His Asn Ser Ala 85 90 95
- Ser Thr Arg Thr Glu Arg Asn Glu Phe Pro Asn Ser His Leu His Gln
  100 105 110
- His Gln Glu Ser Arg Asn Asn Gly Glu Ser Asn Thr Pro Met Thr 115 120 125
- Ser Pro Lys His Phe Pro Thr Asp Asp Leu Arg His Ser Leu Phe Tyr 130 135 140
- Lys Ala Gly Ser Ala Ala His His Lys Ser Ala Thr Ser Ser Lys Gln 145 150 155 160
- Ser Ser Thr Thr Ser Leu Lys Asp Gly Leu Asn Asn Ala Asn Thr Tyr 165 170 175
- His Phe Gln Asn Thr Phe Leu Asp Asn Asn Val Met Ser Asp Leu Glu
  180 185 190
- Glu Ser Pro Val Pro Asn Glu Arg Asn Pro Ile Gln Asp Thr Gly Leu
- Gly Pro Arg Ser His Ala Thr Lys Phe Gly Val Gln Ser Thr Thr Ser 210 215 220
- Leu Pro Thr Thr Ile Ser Gln Ser Arg Leu Pro Asn Ser Asn Lys Ser 225 230 235 240
- Ser Phe Phe Pro Phe Lys Ser Tyr Thr Ser Ser Pro Val Lys Glu Thr 245 250 255
- Lys His Val Phe Leu Glu Tyr Asp Pro Ile Thr Arg Arg Lys Val Leu 260 265 270
- Asn Thr Tyr Glu Ile Leu Arg Glu Ile Gly Lys Gly Glu His Gly Lys 275 280 285
- Val Lys Leu Ala Arg Asp Leu Ile Asn Asn Glu Leu Val Ala Ile Lys 290 295 300
- Ile Val Asn Arg Lys Ser Arg Lys Glu Arg Pro Ser Leu Arg Met Arg 305 310 315 320

- Lys Asn Ser Ser Ala Pro Val Ile Asn Glu Tyr Glu Leu Lys Val Lys 325 330 335
- Arg Glu Ile Ala Ile Met Lys Lys Cys Arg His Lys His Ile Val Ala 340 345 350
- Leu Arg Glu Val Leu Asp Asp Leu Asn Ser Leu Lys Ile Tyr Leu Val 355 360 365
- Leu Glu Tyr Met Glu Lys Gly Glu Ile Lys Trp Lys Lys Leu Gln Ser 370 380
- Asp Val Ala Lys Pro Thr Ala Asn Lys Cys Tyr Asp Ala Asn Asp Asn 385 390 395 400
- Glu Ile Pro Cys Cys Gly Asn Gly Arg Met Gln Gln Arg Gln Gln Ser 405 410 415
- Leu Leu Thr Asp Glu Asp Leu Leu Ser Asn Glu Phe Ser Pro Asn Leu 420 425 430
- Thr Phe Lys Gln Ser Arg Lys Ile Phe Arg Asp Val Leu Leu Gly Leu 435 440 445
- Glu Tyr Leu His Met Gln Gly Ile Val His Arg Asp Ile Lys Pro Ala 450 455 460
- Asn Leu Leu Val Ser Ala Asp Asn Ile Val Lys Ile Ser Asp Phe Gly 465 470 480
- Val Ser Phe Ala Thr Ser Leu Ala Glu Asn Asp Glu Gly Tyr Leu Val 485 490 495
- Asn Glu Leu Asp Leu Ala Lys Thr Ala Gly Thr Pro Ala Phe Phe Ala 500 505 510
- Pro Glu Leu Cys Gln Phe Asp Asp Glu Thr Ala Thr Glu Lys Leu Ser 515 520 525
- Ser Ser Thr Glu Ser Met Ala Pro Pro Lys Ile Asp Tyr Lys Ile Asp 530 540
- Ile Trp Ala Leu Gly Val Thr Leu Tyr Cys Leu Leu Phe Gly Lys Val 545 550 555 560
- Pro Phe Asn Ala Asp Thr Glu Tyr Asp Leu Phe Gln Val Ile Val Lys 565 570 575
- Glu Pro Leu Lys Phe Pro Asn Ser Ile Lys Ala Phe Asn Pro Pro Ala 580 585 590
- Thr Val Thr Glu Glu Glu Phe Glu Leu Ala Lys Asp Leu Leu Ser Lys 595 600 605
- Met Leu Asp Lys Asn Asn Arg Thr Arg Ile Glu Ile Gln Asp Ile Lys 610 620

- Glu His Pro Phe Thr Leu Met Asp Leu Asp Asn Asp Val Asp Gly Leu 625 630 635 640
- His Glu Leu Phe His Leu Asn Gly Asp Asn Pro Val Glu Pro Leu Ser 645 650 655
- Phe Asp Leu Asp Glu His Asp Ile Val Ser Lys Asp Glu Val Asp Asn 660 665 670
- Ala Val Ile Gly Val Gly Ala Arg Ile Lys Arg Ser Leu Val Arg Ala 675 680 685
- Ile Arg Ala Gly Gly Leu Lys Asp Gly Glu Ile Arg Asn Lys Phe Ala 690 695 700
- Ala Leu Gln Leu Glu His Ser Arg Ser Glu Asn Ser Glu Glu Ser Ser 705 710 715 720
- Ser Gly Tyr Ser Asn Tyr Ser Ser Ser Thr Arg Leu Leu Gly Tyr Gln 725 730 735
- Asn Gly Gln Asn Tyr Ser Met Ile Leu Ser Glu Gly Leu Pro Val Ser 740 745 750
- Ser Ala Thr Pro Pro Pro Ala Leu Leu Ala Ala Gln Gln Lys Arg Ser 755 760 765
- Ser Leu Leu Ser Pro Lys Ser Gly Gly Ile Ser Glu Lys Asn Asn Pro 770 780
- His Phe Pro Ser Ser Leu Ala His Gln Ile Pro Asn Thr Ser Ser Pro 785 790 795 800
- Ser Thr Cys Ser Ser Ser Thr Ser Met Ala Phe Gln Asn His Phe Ser 805 810 815
- Phe Ala Gly Met Arg Glu Ser Gly Lys Ser Leu Leu His Asp Met Ile 820 825 830
- Glu Ser Asn Ser Asn Ser Ser Ser Arg Gly Ser Ser Ala Gly Ile 835 840 845
- Thr Val Ser Glu Ala Pro Gln Ile Glu Thr Lys Arg Asn Val Gly Gly 850 855 860
- Asp Leu Tyr Leu Lys Asn Gln Ser Val Val Glu Thr Phe Lys Gly Ile 865 870 875 880
- Gln Leu Gln Asp Asp Lys Arg Arg Arg Ser Ser Ile Phe Ser Leu His 885 890 895
- Ser Gln Ile Gly Thr Asn Ser Asn Lys Ser Ser Leu Ser His Glu Leu 900 905 910
- Thr Pro Thr Gln Thr Gly Ser Gly Ala Ser Thr Gln Gln His Gln 915 920 925

- His Tyr Ser Thr Asn Tyr Ser Asn Ile Ala Ala Pro Ile Pro Val Pro 930 935 940
- Ala Pro Arg Lys Gln Ser Thr Ser Asp Asn Glu Gln Asp Ile Lys Ala 945 950 955 960
- Pro Leu Leu His Gln Glu Lys Asn Val Met Gly Lys Pro Tyr Leu Lys 965 970 975
- Ile Gly Pro Ile Ser Ile Ala Arg Glu Asp Glu Lys Ser Ala Asp Asp 980 985 990
- His Pro Asp Ser Ser Ile Ile Ser Leu Pro Leu Ser Glu Ser Phe Ala 995 1000 1005
- Ser Leu Asp Ser Ile Asn Asp Asp Tyr Leu Ser Arg Lys Tyr Glu Glu 1010 1015 1020
- Tyr Thr Asn Asn Arg Lys Glu Asn Ser Lys Ser Glu Gly Asn Val Pro 1025 1030 1035 1040
- Val Ile Ser Leu Arg Arg Lys Ser Ser Leu Ser Glu Ser Asp Leu Thr 1045 1050 1055
- Arg His Val Gln Leu Lys Asp Pro Phe Gly Lys Phe Lys Pro Asp Gly
  1060 1065 1070
- Ser Glu Ile Ala Glu Lys Phe Lys Ala Phe Asn Leu Gly Asn Leu Met 1075 1080 1085
- Lys Thr Gly Gly Lys Phe Ala Leu Ala Glu His Asn Ser Ser Asp Ser 1090 1095 1100
- Gln Gln Ile Lys Gly Asn Asn Tyr Gln Ser Ser Asp Asp Gly Ile Ala 1105 1110 1115 1120
- Pro Lys Ala Ile Val Pro Ala Ile Ser Tyr Ser Ser Ser Asp Ser Tyr 1125 1130 1135
- Ser Ser Cys Ser Ser Ser Ser Phe Asp Asp Glu Asp Glu Ser Asp Asp 1140 1145 1150
- Asp Glu Glu Asn Leu Thr Leu Ala Phe Gln Ser Lys Val Ala Pro Ile 1155 1160 1165
- Ser Arg Ala Asn Phe Leu Ser Leu Thr Gly Arg Ala Lys Ser His Asp 1170 1175 1180
- Ser Asn Leu Pro Thr Leu Arg Gln Asn Arg Glu Lys Gly Arg Gln Leu 1185 1190 1195 1200
- Asn Pro Glu Phe Gln Gly Pro Ile Ile Phe His Asp Gly Leu Pro Glu 1205 1210 1215
- Phe Glu Asp Val Pro Asp Gly Leu Ile Asn Ser Asn Pro Ile Gly Asn 1220 1225 1230

- Asn Asn Val Asn Gly Asn Ser Ala Phe Asn Ser Gly Tyr Ser Tyr Tyr 1235 1240 1245
- Asp Asn Val Asn Pro Thr Val Val Ser Ser Asn Val Ser Thr Ala Thr 1250 1260
- Leu Thr Met Gly Met Ala Pro Ser Glu Ser Val Glu Thr Asn Val Glu 1265 1270 1275 1280
- Ala Pro Ala Gln Glu Asn Ala Val Lys Val Ser Ser Pro Leu Asn Pro 1285 1290 1295
- His Lys Asn Thr Ser Ser Arg Ser Asp Ile Leu Lys Asp Leu Lys Lys 1300 1305 1310
- Asn Thr Ser Ile Ser Phe Gly Glu Ile Leu Phe Asn Asp Gln Phe Asn 1315 1320 1325
- Asn His Tyr Lys Lys Asp Pro Val Tyr Ser Pro Phe Pro Ser Ala Lys 1330 1335 1340
- His Leu Asp Asn Asp Gln Glu Thr Ile Val Lys Glu Ser Ala Ser Lys 1345 1350 1355 1360
- Phe His Glu His Arg Pro Thr Tyr Tyr Arg Ser Asn Ser Val Thr Ile 1365 1370 1375
- Gly Leu Leu His Arg Ser Thr His Arg Glu Asp Asp Asp Asp Val Ser 1380 1385 1390
- Gln Thr Gly Asn Asp Leu Glu Gln Leu Ile Thr Lys Glu Lys Gln Gly 1395 1400 1405

<210> 30

<211> 855

<212> PRT

<213> Saccharomyces cerevisiae

<400> 30

- Met Gly Asp Glu Lys Leu Ser Arg His Thr Ser Leu Lys Arg Ala Arg

  1 10 15
- Ser Leu Ser Glu Ser Ile Lys Gly Leu Phe Lys Pro Ser Gly Ile Ser 20 25 30
- Gly Ser Asn Asn Ala Ala Pro Ser Ser Arg Pro Gly Gln Asp Gln 35 40 45
- Ala His Ser His Gln Thr Ala Arg Ile Ile Thr Ser Asn Val Ser Ser 50 60
- Pro Ser Ile Ser Pro Val His Ser Pro Val Leu Gln Ala Ala Pro Lys 65 70 75 80
- His His Lys Leu Gly Val Pro Asn Ile Ala Lys Leu Ser Leu Ser Pro 85 90 95

- Ser Arg Glu Pro Ser Leu Asn Ser Glu Asn Glu Met Phe Ser Gln Glu
  100 105 110
- Ser Phe Ile Ser Glu Lys Asp Glu Asp Glu Ala Asn Leu Leu Glu Arg 115 · 120 125
- Glu Asp Leu Gln Asn Lys Lys Glu Glu Lys Ala Arg Ala Lys His Val 130 135 140
- Arg Ser Lys Glu Ala Tyr Val Pro His His Arg Tyr Thr Val Gly Ser 145 150 155 160
- Asp Glu Val Glu Arg Gln Pro Arg Glu Arg Leu Lys Asn Phe Pro Gln
  165 170 175
- Asn Ala Gly Ser Ser Asn Pro Ala Asn Ser Asn Ala Asn His Val Leu 180 185 190
- Asp Gln Glu Asn Asn Phe Ser Ile Asp Ala Met Leu Asp Tyr Asp Glu 195 200 205
- Glu Ser Lys Leu Arg Arg Arg Asn Ser Leu Gly Val Arg Asn His Ser 210 215 220
- Asn Arg Thr Arg Ser Arg Lys Asn Ser Leu Ser Thr Pro Arg Ser Pro 225 230 235 235
- Pro Met Lys Asn Gly Asn Gly Gly Met Asn Ser Asn Ala Thr Asn Asn 245 250 255
- Val Gly Asn Gly Thr Gly Asn Arg Ile Tyr Met Arg Gly Arg Asn His 260 265 270
- Ser Asp Ser Ile Ser Ala Ser Ser Leu Pro Lys Phe Gln Glu Ile Glu 275 280 285
- Cys Lys Cys Ile Leu Asp Leu Gly His Phe Lys Val Phe Glu Asn Gly 290 295 300
- Tyr His Glu His Ser Leu Arg Val Leu Pro Ile Ile Thr Asn Asn Lys 305 310 315 320
- Asn Val Asp Ser Gly Asp Glu Lys Asp Ala Asp Ala Ser Val Asn Ser 325 330 335
- Gly Asp Asp Gly Asp Asn Asp Ser Glu Ala Asn Met His Lys Gln Lys 340 345 350
- Ser Val Phe Ser Leu Ser Gly Leu Phe Lys Ser His Lys Asp Gly Asn 355 360 365
- Gln Gln Gln Gln Gln Gln Gln Gln Glu Glu Asn Gly Glu Gln Ile 370 375 380
- Asn Leu Glu Lys Ala Phe Ser Ile Ile Pro Ser Gln Arg Phe Ile Lys 385 390 395 400

- Ser Gln Thr Leu Lys Lys Ser Arg Thr Ser Asn Leu Lys Asn Gly Asn 405 410 415
- Asn Asp Glu Leu Met Lys Asn Asp Gly Lys Asn Ile Pro Gln Ile Val 420 425 430
- Asn Pro Asn Ala Ala Val Gly Val Glu Glu Leu Lys Leu Ile Asn Ala 435 440 445
- Leu Ser Glu Lys Ile Arg Lys Gly Leu Lys Ser Glu Asn Thr Lys Gly 450 455 460
- Asn Asn Gly Glu Gly Arg Ser Asn Ser Asn Lys Gln Glu Asp Ser Asp 465 470 475 480
- Asp Thr Glu Gly Lys Ala Gly Thr Thr Asn Asp Asp Thr Ser His Lys
  485 490 495
- Pro Cys Ser Gln Lys Tyr Gly Lys Ser Ile Gly Val Val Gly Ala Gly 500 505 510
- Ala Tyr Gly Val Val Lys Ile Cys Ala Arg Cys Lys Thr Ala Lys Asp 515 520 525
- Val Leu Pro Tyr Ser Thr Tyr Ser Asn Gly Lys Lys Leu Phe Phe Ala 530 535 540
- Val Lys Glu Leu Lys Pro Lys Pro Gly Asp Gln Ile Asp Lys Phe Cys 545 550 555 560
- Thr Arg Leu Thr Ser Glu Phe Ile Ile Gly His Ser Leu Ser His Pro 565 570 575
- His Phe Glu Ala Asn Ala Met Ile Ala Gly Asn Val Ser Arg Thr Thr 580 585 590
- Pro Pro Lys His Val Phe Asn Ala Pro Asn Ile Leu Lys Ile Leu Asp 595 600 605
- Leu Met Glu Tyr Ser Asn Ser Phe Val Glu Val Met Glu Phe Cys Ala 610 615 620
- Ser Gly Asp Leu Tyr Ser Leu Leu Thr Arg Asn Asn Ile Ser Asn Glu 625 630 635 640
- Ser Asn Asn Gly Ser Ser Arg Leu Ile Gln Thr Val Lys Glu Gly Ser 645 650 655

7

- Gly Ser Pro Leu His Pro Leu Glu Ala Asp Cys Phe Met Lys Gln Leu 660 665 670
- Leu Asn Gly Val Gln Tyr Met His Asp His Gly Ile Ala His Cys Asp 675 680 685
- Leu Lys Pro Glu Asn Ile Leu Phe Gln Pro Asn Gly Leu Leu Lys Ile 690 695 700

Cys Asp Phe Gly Thr Ser Ser Val Phe Gln Thr Ala Trp Glu Lys His 705 710 715 720

Val His Phe Gln Ser Gly Ala Met Gly Ser Glu Pro Tyr Val Ala Pro
725 730 735

Glu Glu Phe Ile Arg Asp Ala Glu Tyr Asp Pro Arg Leu Val Asp Cys
740 745 750

Trp Ser Cys Gly Ile Val Tyr Cys Thr Met Val Met Gly Gln Tyr Leu 755 760 765

Trp Lys Ile Ala Ile Pro Glu Lys Asp Ser Leu Phe Lys Ser Phe Leu
770 780

Ser Glu Ile Lys Asp Asp Gly Gln Phe Tyr Leu Phe Glu Glu Leu Arg
785 790 795 800

His Val Ser Ser Glu Leu Asn Arg Leu Arg Lys Ile Ala Leu Tyr Arg 805 810 815

Thr Phe Gln Val Asp Pro Thr Lys Arg Ile Thr Ile Glu Gln Leu Leu 820 825 830

Gln Ser Ser Trp Met Arg Lys Thr Lys Cys Cys Val Val Tyr Arg His 835 840 845

Leu His Thr Lys Val Ser Lys 850 855

<210> 31

<211> 734

<212> PRT

<213> Saccharomyces cerevisiae

<400> 31

Met Met Asp Ser Lys Thr Leu Thr Ala Ser Met Val Met Gln Glu Glu 1 5 10 15

Lys Lys Arg Gln Gln Pro Val Thr Arg Arg Val Arg Ser Phe Ser Glu 20 25 30

Ser Phe Lys Asn Leu Phe Arg Pro Pro Arg Ser Arg Asp Ser Ser Pro 35 40 45

Ile Asn Val Thr Arg Ile Pro Tyr Arg Ser Ser Ser Thr Ser Pro Lys
50 55 60

Arg Ser Ser Glu Pro Pro Arg Arg Ser Thr Val Ser Ala Gln Ile Leu 65 70 75 80

Asp Pro Lys Asn Ser Pro Ile Arg Gln Arg Ser Tyr Thr Leu Lys Cys
85 90 95

Cys Thr Pro Gly Leu Ser His Pro Phe Arg Gln Thr Gly Ser Gly Ala
100 105 110

- Ser Asn Ser Pro Thr Arg His Arg Ser Ile Ser Gly Glu Glu Glu Glu 115 120 125
- Ile Val Asn Ser Leu Pro Glu Tyr Lys Arg Ser Ala Ser His Thr Phe 130 135 140
- His Gly Ile Arg Arg Pro Arg Ser Arg Ser Ser Ser Val Ser Ser Cys 145 150 155 160
- Asp Ser Ser Asn Gly Thr Thr Ser Ser Ser Asp Ser Gln Trp Ala Met 165 170 175
- Asp Ser Leu Leu Asp Asp Ser Asp Asn Asp Leu Thr Pro Tyr Arg Gly
  180 185 190
- Ser Asn Lys Asp Ile Leu Lys Ser Lys Asp Arg Ala Pro Tyr Asn Tyr 195 200 205
- Ile Asp Asp Tyr Asn Lys Lys Ala Leu Arg Arg Ala Thr Ser Tyr Pro 210 215 220
- Asn Pro Leu Pro Ser Lys Gln Phe Tyr Asn Glu Arg Leu Tyr Thr Arg 225 230 235 240
- Arg Ser His Pro Asp Glu Glu Ser Leu Glu Ser Leu Pro Arg Phe Ala 245 250 255
- Gly Ala Asp Val Gln Cys Ile Ile Glu Gln Asn Gly Phe Lys Val Tyr
  260 265 270
- Glu Asp Gly Ser His Glu His Asn Ile Lys Leu Ser Gly Val Ile Ala 275 280 285
- Lys Leu Glu Lys Gly Asn Ser Leu Pro Ala His Arg Gln Gly Ser Leu 290 295 300
- Ser Arg Pro Arg Leu Gly Ile Thr Leu Ser Gly Leu Phe Lys His His 305 310 315 320
- Lys Asn Glu Cys Asp Ile Glu Asn Ala Leu Ser Leu Leu Pro Asn Val 325 330 335
- Glu Lys Ser Gln Thr Asn His Glu Lys Arg Thr Gly Gln Ser Pro Asn 340 345 350
- Asp Ser Asn Arg Ser Ser Pro Thr Gln Gly Arg Glu Asp Tyr Leu Lys 355 360 365
- Ile Val Asn Pro Asp Ala Ser Leu Gly Ser Asp Glu Leu Lys Leu Ile 370 380
- Asn Ser Leu Ser Ser Arg Ile His Lys Ser Leu Gln Asn Tyr Leu Gln 385 390 395 400
- Glu Lys Asn Leu Lys Pro Ala Glu Cys Ile Gly Glu Gln Ala Pro Thr 405 410 415

- Phe Gln Asp Asn Tyr Gly His Pro Val Gly Leu Val Gly Ala Gly Ala 420 425 430
- Tyr Gly Glu Val Lys Leu Cys Ala Arg Leu Arg Asn Glu Lys Asp Ser 435 440 445
- Pro Pro Phe Glu Thr Tyr His Asp Ser Lys Tyr Ile Tyr Tyr Ala Val 450 455 460
- Lys Glu Leu Lys Pro Lys Pro Asp Ser Asp Leu Glu Lys Phe Cys Thr 465 470 475 480
- Lys Ile Thr Ser Glu Phe Ile Ile Gly His Ser Leu Ser His Tyr His
  485
  490
  495
- Lys Asn Gly Lys Lys Pro Ala Pro Asn Ile Leu Asn Val Phe Asp Ile
  500 505 510
- Leu Glu Asp Ser Ser Ser Phe Ile Glu Val Met Glu Phe Cys Pro Ala 515 520 525
- Gly Asp Leu Tyr Gly Met Leu Val Gly Lys Ser Lys Leu Lys Gly Arg 530 535 540
- Leu His Pro Leu Glu Ala Asp Cys Phe Met Lys Gln Leu Leu His Gly 545 550 555 560
- Val Lys Phe Met His Asp His Gly Ile Ala His Cys Asp Leu Lys Pro 565 570 575
- Glu Asn Ile Leu Phe Tyr Pro His Gly Leu Leu Lys Ile Cys Asp Phe 580 585 590
- Gly Thr Ser Ser Val Phe Gln Thr Ala Trp Glu Arg Arg Val His Ala 595 600 605
- Gln Lys Gly Ile Ile Gly Ser Glu Pro Tyr Val Ala Pro Glu Glu Phe 610 615 620
- Val Asp Gly Glu Tyr Tyr Asp Pro Arg Leu Ile Asp Cys Trp Ser Cys 625 630 635 640
- Gly Val Val Tyr Ile Thr Met Ile Leu Gly His Tyr Leu Trp Lys Val 645 650 655
- Ala Ser Arg Glu Lys Asp Met Ser Tyr Asp Glu Phe Tyr Lys Glu Met 660 665 670
- Gln Arg Lys Asn Gln Phe Arg Val Phe Glu Glu Leu Lys His Val Asn 675 680 685
- Ser Glu Leu Ala Thr Asn Arg Lys Ile Ala Leu Tyr Arg Ile Phe Gln 690 695 700
- Trp Glu Pro Arg Lys Arg Ile Ser Val Gly Lys Leu Leu Asp Met Gln 705 710 715 720

Trp Met Lys Ser Thr Asn Cys Cys Leu Ile Tyr Asp Ser Thr 725 730

<210> 32

<211> 789

<212> PRT

<213> Saccharomyces cerevisiae

<400> 32

Met Ser Ser Leu Thr Arg Leu Leu Gln Glu Lys Arg Lys Asn Glu Thr 1 5 10 15

Ser Asn Ser Ser Pro Arg Thr Ser Ala Asp Thr Leu Thr Thr Pro
20 25 30

Glu Ser Gln Ser Leu Asp Leu His Ser Arg Asn Lys Ser Ser Ser His
35 40 45

Ile Gly Ser Val Ser Asn Ser Ser Ser Ser Asp Arg Asn Arg Ala Asn 50 55 60

Val Pro Val Pro Gly Ser Val Thr Thr Val Thr Gln Ile Tyr Ser Glu 65 70 75 80

Glu Asp Ser Ser Ser Thr Ala Gly Ser Ser Leu Asp Asp Asp Asn Gln
85 90 95

Phe Ser Ser Ser Phe Leu Asn Ala Asn Phe Ala His Thr Ala Ser Phe
100 105 110

Tyr Gly Thr Ser Ala Gln Ser Arg Asp Arg Phe Gly Ser Leu Ile Asn 115 120 125

Asp Gln Gly Thr Ala Gly Leu Ser Ser His Gly Gly Ser Phe Ala Ala 130 135 140

Gln Asn Arg Ile Thr Ser Arg Leu Ser Thr Thr Ser His Thr Ser Gly
145 150 155 160

Arg Ala Ile Pro Ser Leu Ser Ser Ser Ile Pro Tyr Ser Val Pro Asn 165 170 175

Ser Asn Lys Asp Asn Asn Ser Ser Asn Ser Asn Ser Ser Ser Leu Ser 180 185 190

Ser Ser Trp Leu Glu Thr Tyr Ala Gly Gly Met Pro Asn Asn Ile Thr 195 200 205

His Glu Ser Asn Val Ile Ser Ser Pro Lys Val Asp Ser Val Glu Pro 210 215 220

Arg Phe Val Ile Ser Lys Gln Lys Leu Gln Lys Ala Ser Met Asp Ser 225 230 235 240

Asn Asn Ala Asn Ala Thr Gln Ser Arg Ser Ile Ser Arg Ser Gly Ser 245 250 255

- Phe Ser Ser Gln Leu Gly Asn Phe Phe Phe Ser Lys Asn Ser Lys Glu 260 265 270
- Ser Ser Asn Ser Asn Ser Ala Gly Met Ser Phe Ser Ala Asn Ser Asn 275 280 285
- Gly Pro Ser Pro Asn Ile Lys Asn Pro Asn Val Thr Asn Gly Ser Thr 290 295 300
- Pro Ile Pro Lys Pro Ile Arg Ala Arg Gln Ser Ser Ile Tyr Ser Ala 305 310 315 320
- Ser Arg Gln Pro Thr Gly Ser Tyr Thr Asp Asn Phe Tyr Gly Ser Pro 325 330 335
- Ser Ser Val His Asp His Leu Pro Pro Ser Gln Ser Val Pro Arg Ser 340 345 350
- Gln His Ser Ser Ile Gly Asp Leu Lys Arg Phe Phe Lys Lys Ser Ser 355 360 365
- Asn Ser Asn Leu Ser Ser Asn Ser Asn Asn Val Ile Pro Asn Gly Ser 370 375 380
- Pro Leu Ser Ser Gly Ile Ala Val Pro Ser His Ser His Ser Ser Ser 385 390 395 400
- His Phe Ala Ala Gly Asn Asn Ser Tyr Ser Thr Ser Tyr Asn Gly Asn 405 410 415
- Gly Asp Thr Ile Tyr Ser His Ser His Gly Gly Ser Gly Ile Pro Phe 420 425 430
- Ser Lys Arg Tyr Ile Lys Thr Gly Ala Asp Leu Gly Ala Gly 435 440 445
- Gly Ser Val Lys Leu Ala Gln Arg Ile Ser Asp Asn Lys Ile Phe Ala 450 455 460
- Val Lys Glu Phe Arg Thr Lys Phe Glu Asn Glu Ser Lys Arg Asp Tyr 465 470 475 480
- Val Lys Lys Ile Thr Ser Glu Tyr Cys Ile Gly Thr Thr Leu Asn His
  485 490 495
- Pro Asn Ile Ile Glu Thr Ile Glu Ile Val Tyr Glu Asn Asp Arg Ile
  500 505 510
- Leu Gln Val Met Glu Tyr Cys Glu Tyr Asp Leu Phe Ala Ile Val Met 515 520 525
- Ser Asn Lys Met Ser Tyr Glu Glu Ile Cys Cys Cys Phe Lys Gln Ile 530 540
- Leu Thr Gly Val Gln Tyr Leu His Ser Ile Gly Leu Ala His Arg Asp 545 550 555 560

Leu Lys Leu Asp Asn Cys Val Ile Asn Glu Lys Gly Ile Val Lys Leu
565 570 575

Ile Asp Phe Gly Ala Ala Val Val Phe Ser Tyr Pro Phe Ser Lys Asn 580 585 590

Leu Val Glu Ala Ser Gly Ile Val Gly Ser Asp Pro Tyr Leu Ala Pro 595 600 605

Glu Val Cys Ile Phe Ala Lys Tyr Asp Pro Arg Pro Val Asp Ile Trp 610 615 620

Ser Ser Ala Ile Ile Phe Ala Cys Met Ile Leu Lys Lys Phe Pro Trp 625 630 635 640

Lys Ile Pro Lys Leu Arg Asp Asn Ser Phe Lys Leu Phe Cys Ser Gly 645 650 655

Arg Asp Cys Asp Ser Leu Ser Ser Leu Val Thr Arg Thr Pro Asp Pro 660 665 670

Pro Ser Tyr Asp Glu Ser His Ser Thr Glu Lys Lys Pro Glu Ser 675 680 685

Ser Ser Asn Asn Val Ser Asp Pro Asn Asn Val Asn Ile Gly Pro Gln 690 695 700

Arg Leu Leu His Ser Leu Pro Glu Glu Thr Gln His Ile Val Gly Arg
705 710 715 720

Met Ile Asp Leu Ala Pro Ala Cys Arg Gly Asn Ile Glu Glu Ile Met 725 730 735

Glu Asp Pro Trp Ile Arg Ser Ile Asp Met Cys His Leu Val Glu Asp
740 745 750

Gly Leu Ser Phe Lys Val Val Arg Gly Glu Asp His His Thr Gln 755 760 765

Val Asp Gln Ser Glu Ala His Ile Ala Gly Leu Glu Lys Lys Lys 770 780 780

Lys Gln Asn Asn Gln 785

<210> 33

<211> 699

<212> PRT

<213> Saccharomyces cerevisiae

<400> 33

Met Ser Leu Ser Arg Ile Leu Arg Tyr Asn Gln Arg Asn Asn Lys Thr 1 10 15

Thr Ala Ser Leu Thr Ala Glu His Ala Tyr Ser Asp Asn Trp Ala Tyr
20 25 30

- Ser Val Ser Leu Gly Asp Pro Thr Ser Val Gly Val Asn Met Ala Ala 35 40 45
- Lys Thr Gly Glu Ala Leu Asn Lys Ser Tyr Asp Ser Val Phe Ser Ser 50 55 60
- Leu Pro Val Ala Asp Ser Val Pro Arg Thr Asp Phe Thr Ala Ser Ser 65 70 75 80
- Arg Asp Asp Glu Asn Thr Asp Val Gln Lys Leu Thr Thr Ser Trp Met 85 90 95
- Glu Lys Ile Asp Thr Lys Met Pro Glu Asn Ile Ser Lys Ile Asp Ser
- Asn Ile Ile Ser Ser Pro Met Val Ser Lys Val Glu Ala Arg Phe Ile 115 120 125
- Val Pro Lys Gly Arg Leu Arg Lys Asn Ser Thr Asp Phe Thr Ser Ser 130 135 140
- Phe Ser Asn Ser Leu Ser Leu Pro Lys Ser Tyr Gly Lys Leu Ile Phe 145 150 155 160
- Phe Thr Ser Lys Lys Asn Ser Ser Ser Thr Lys Lys Asn Leu Ala Asn 165 170 175
- Asp Ile Ser Asp Asn Lys His Asn Asn Asn Ser Ser Asn Thr Ile Gly
  180 185 190
- His Asn Ile Pro Val Thr Thr Ala Thr Ala Thr Cys Asp Glu Ile Ala 195 200 205
- Cys Thr Ser Thr Glu His Glu Tyr Asn Val Tyr Glu Glu Glu Arg Met 210 215 220
- Phe Thr Thr Arg Val Tyr Ser Leu Glu Asp Ser Val Ser Ser Leu Ser 225 230 235 240
- Thr Asn Pro Leu Asp Asp Thr Tyr Ser Glu Ala Val Gln Val Asn Thr 245 250 255
- Arg His Ile Glu Asp Thr Glu Ser Thr Ala His Ile Arg Lys His Ser 260 265 270
- Tyr Thr Thr Ser Leu Ser Ser Ile Lys Arg Leu Phe Lys Ile Thr Ser 275 280 285
- Phe Ser Asn Asn Asn Ser Asn Ser Cys Asp His Gln Glu Ser Thr Val 290 295 300
- Ala Asp Asp Cys Ala Ile Ser Ser Leu Lys Glu Thr Thr Ser Ser 305 310 315 320
- Pro Val Ser Thr Gly Ser Phe Ser Leu Met Ile Glu Asn Glu Asp Ser 325 330 335

- Asp Arg Asp Gln Ile Ile Gln Ala Leu Tyr Ser Asn Ile Glu Ala Ser 340 345 350
- Thr Asp Leu Val Ser Arg Lys Tyr Arg Asp Leu Asp Val Val Leu Gly 355 360 365
- Glu Gly Ser Gly Gly Lys Val Lys Leu Val Gln Arg Val Leu Asp Asn 370 375 380
- Lys Val Phe Ala Leu Lys Glu Tyr Arg Ser Lys Lys Lys Arg Glu Ser 385 390 395 400
- Glu Arg Lys Tyr Ile Lys Asn Ile Ile Ser Glu Tyr Cys Ile Ala Ser
  405 410 415
- Thr Leu Lys Asn Pro Asn Ile Cys Glu Thr Leu Glu Ile Leu Tyr Glu
  420 425 430
- Lys Gly Lys Ile Phe Gln Ile Leu Glu Tyr Cys Glu Tyr Asp Leu Phe 435 440 445
- Ser Leu Val Met Ser Glu Lys Met His Tyr Glu Glu Ile Cys Cys Leu 450 455 460
- Phe Lys Gln Leu Ile Asn Gly Val Lys Tyr Leu His Asp Ile Gly Leu 465 470 475 480
- Ser His Arg Asp Leu Lys Leu Asp Asn Cys Val Val Thr Arg Arg Gly
  485 490 495
- Ile Leu Lys Leu Ile Asp Phe Gly Ala Ser Ser Val Phe His Tyr Pro 500 505 510
- Leu Ser Ser Gln Met Ile Glu Ala Asn Gly Ile Val Gly Ser Asp Pro 515 520 525
- Tyr Leu Ser Pro Glu Val Phe Tyr Phe Asn Glu Tyr Asp Pro Arg Ala 530 535 540
- Leu Asp Val Trp Ser Val Gly Ile Ile Phe Phe Cys Met Ile Thr Arg 545 550 555 560
- Arg Phe Pro Trp Lys Tyr Pro Lys Val Lys Asp Val Gln Phe Lys Ala 565 570 575
- Phe Cys Ser Gly Arg Gly Val Ser Ser Phe Lys Asp Leu Val Thr Arg 580 585 590
- Pro Ala Thr Asp Asp Ser Asn Asn Tyr Asp Asn Asp Gly Tyr Glu Glu 595 600 605
- Gly Val Ile Asp Met Gly Pro Asn Phe Ile Leu His Arg Leu Pro Glu 610 620
- Glu Thr His Lys Ile Met Arg Arg Ile Leu Glu Val Ser Pro Phe Arg 625 630 635 640

- Arg Ile Thr Ile Asn Gly Ile Leu Gln Asp Gly Trp Ile Lys Glu Ile 645 650 655
- Glu Thr Cys Gln Val Val Gly Ala Ala Ser Pro Asn Glu Ala Ser Leu 660 665 670
- Arg Ile Ile Asn Lys Gly Asn His Ile His Thr Asn Ile Asp Gln Arg 675 680 685
- Tyr Ala His Ile Gly Gly Leu His Gln Arg Thr 690 695
- <210> 34
- <211> 560
- <212> PRT
- <213> Saccharomyces cerevisiae
- <400> 34
- Met Thr Val Ser His Asn His Ser Thr Lys Ile Ser Gln Gln Pro Ile 1 5 10 15
- Ser Ser Val Ser Ala Phe Lys Phe Phe Gly Lys Lys Leu Leu Ser Ser 20 25 30
- Ser His Gly Asn Lys Leu Lys Lys Lys Ala Ser Leu Pro Pro Asp Phe
- His Ser Thr Ser Thr Asn Asp Ser Glu Ser Ser Pro Lys Leu Pro 50 55 60
- Asn Ser Leu Lys Thr Ser Arg Arg Ala Asn Ser Phe Ala His Thr Thr 65 70 75 80
- Asn Ser Lys Arg Ser Leu Ser Ser Ala Ser Thr Lys Ile Leu Pro Pro 85 90 95
- Ala Gly Ser Ser Thr Ser Ile Ser Arg Gly Asn Arg His Ser Ser Thr
  100 105 110
- Ser Arg Asn Leu Ser Asn Ser Lys Phe Ser Ser Glu Arg Leu Val Tyr 115 120 125
- Asn Pro Tyr Gly Val Ser Thr Pro Ser Thr Ser Leu Ser Ser Val Ser 130 135 140
- Thr Ser Met Lys Lys Asp Pro Asp Leu Gly Phe Tyr Leu His Asp Gly 145 150 155 160
- Asp Ser Lys Ile Arg Met Leu Pro Ile Pro Ile Val Asp Pro Asn Glu 165 170 175
- Tyr Leu Pro Asp Glu Met Lys Glu Ala Ser Ile Gln Leu Ser Asp Asn 180 185 190
- Phe Val Phe Asp Asp Glu Asn Lys Thr Ile Gly Trp Gly Gly Ser Cys 195 200 205

- Glu Val Arg Lys Ile Arg Ser Lys Tyr Arg Lys Lys Asp Val Phe Ala 210 215 220
- Leu Lys Lys Leu Asn Met Ile Tyr Asn Glu Thr Pro Glu Lys Phe Tyr 225 230 235 240
- Asn Ala Ala Pro Lys Glu Phe Ile Ile Ala Lys Gln Leu Ser His His 245 250 255
- Val His Ile Thr Asn Thr Phe Leu Leu Val Lys Val Pro Thr Thr Val
  260 265 270
- Tyr Thr Thr Arg Gly Trp Gly Phe Val Met Glu Leu Gly Leu Arg Asp 275 280 285
- Leu Phe Ala Met Ile Gln Lys Ser Gly Trp Arg His Val Ala Leu Ala 290 295 300
- Glu Lys Phe Cys Ile Phe Lys Gln Val Ala Cys Gly Val Lys Phe Cys 305 310 315 320
- His Asp Gln Gly Ile Ala His Arg Asp Leu Lys Pro Glu Asn Val Leu 325 330 335
- Leu Ser Pro Asp Gly Val Cys Lys Leu Thr Asp Phe Gly Ile Ser Asp 340 345 350
- Trp Tyr His His Gly Ser Thr Arg Pro Val Gln Pro Cys Gln Glu Val
- Arg Arg Asp Asp Leu Ala Pro Tyr Ala Pro Pro Glu Val Met Phe 370 375 380
- Tyr Asp Ser Lys Lys His Tyr Asp Thr Glu Leu Gln Gln Pro Tyr Asp 385 390 395 400
- Pro Arg Ala Leu Asp Cys Tyr Gly Leu Gly Ile Ile Leu Met Thr Leu 405 410 415
- Val Asn Asn Val Ile Pro Phe Leu Glu Ser Cys Ser Phe Asp Thr Gly
  420 425 430
- Phe Arg Asp Tyr Cys Asp Ala Tyr Glu Asn Phe Ile Arg Leu His Asp 435 440 445
- Arg Ala Phe Arg Asn Arg Ala Ile Thr Ala Arg Gly Arg Glu Trp Ser 450 455 460
- Ile Thr Trp Leu Glu Ile Ser Arg Thr Asp Met His Leu Ala Trp His 465 470 470 480
- Gly Gly Ser Leu Thr Gln Lys Pro Pro Pro Ala Thr Pro Ser Thr Thr 485 490 495
- Ser Ser Lys Thr His Gly Ser Lys Glu Leu Arg Leu Val Leu Met Pro 500 505 510

Thr Thr Asn Met Cys Val Arg Asn Leu Leu Ser Lys Pro Leu Arg Thr 515 520 525

Arg Ile Arg Gly Val Ser Ile Ser Leu Gln Met Leu Leu Gln Pro His 530 540

Pro Pro Gln Thr His Ser Leu Arg Thr Glu Ser Pro Ser Gly Gln Trp 545 550 560

<210> 35

<211> 818

<212> PRT

<213> Saccharomyces cerevisiae

<400> 35

Met Ala Gly Asn Gly Lys Asp Lys Glu Val Asp Lys Ser Pro Ser Val 1 5 10 15

Ser Thr Leu Lys Leu Leu Gly Lys Arg Leu Phe Asn Ser Ser His
20 25 30

Thr Asp Asn Ser Ser Leu Leu Ser Ala Glu Gln Leu Gly Asn Gly 35 40 45

Arg Ser Leu Arg Lys Arg Pro Thr Ser Pro Ser Ile Ser Gly Ser Gly 50 55 60

Ser Gly Gly Asn Ser Pro Ser Ser Ser Ala Gly Ala Arg Gln Arg Ser 65 70 75 80

Ala Ser Leu His Arg Arg Lys Asn Asn Ala Ser Val Gly Phe Ser Asn 85 90 95

Gly Ser Val Ser Ser His Lys Ser Ser Val Ala Leu Gln Asp Leu Ile 100 105 110

Lys His Asn Asn Asn Pro Tyr Leu Asn Ser Pro Ser Asp Ile Leu Gly
115 120 . 125

Thr Gly Thr Gly Ile Ala Ser Thr Arg Asp Arg Asp Arg Ala Val Leu 130 135 140

Asp Arg Glu Lys Glu Lys Glu Arg Ala Arg Asn Lys Glu Arg Asn Thr 145 150 155 160

His His Ala Gly Leu Pro Gln Arg Ser Asn Ser Met Ala Ser His His 165 170 175

Phe Pro Asn Glu Asn Ile Val Tyr Asn Pro Tyr Gly Ile Ser Pro Asn 180 185 190

His Ala Arg Pro Asp Thr Ala Phe Ala Asp Thr Leu Asn Thr Asn Lys
195 200 205

Glu Asn Asp Leu Ser Phe Tyr Met His Asp Gly Asn Ser Lys Ile Arg 210 215 220

- Met Leu Pro Leu Pro Ile Ala Asn Pro Asn Asp Phe Leu Pro Glu Asp 225 230 235 235
- Met Lys Gln Tyr Ser Val His Leu Thr Asp Asn Phe Val Phe Asp Thr 245 250 255
- Asp Asn Lys Pro Ile Gly Ser Gly Gly Ser Ser Glu Val Arg Lys Val 260 265 270
- Lys Ser Ser Tyr Arg Gln Lys Asp Val Tyr Ala Leu Lys Lys Leu Asn 275 280 285
- Met Ile Tyr His Glu Ser Pro Glu Lys Phe Tyr Lys Arg Cys Ser Lys 290 295 300
- Glu Phe Ile Ile Ala Lys His Leu Ser His Asn Val His Ile Thr Asn 305 310 315 320
- Thr Phe Tyr Leu Leu Lys Val Pro Thr Thr Thr Tyr Thr Thr Arg Gly 325 330 335
- Trp Gly Phe Ile Met Glu Leu Gly Val Lys Asp Leu Phe Gln Leu Met 340 345 350
- Glu Arg Thr Gly Trp Lys Asn Val Pro Phe Asn Glu Lys Tyr Cys Leu 355 360 365
- Phe Lys Gln Val Ala Gln Gly Ile Lys Phe Cys His Asp Asn Gly Ile 370 375 380
- Ala His Arg Asp Leu Lys Pro Glu Asn Val Leu Ile Ser Lys Glu Gly 385 390 395 400
- Ile Cys Lys Leu Thr Asp Phe Gly Ile Ser Asp Trp Tyr His Val Ile
  405 410 415
- Pro His Asp Tyr Thr Ser Pro Val Lys Thr Cys Gln Gly Met Ile Gly 420 425 430
- Ser Pro Pro Tyr Thr Pro Pro Glu Val Met Tyr Phe Asp Ala Lys Lys 435 440 445
- His Tyr Pro Glu Lys Phe Gln Lys Pro Tyr Asn Pro Leu Ala Met Asp 450 455 460
- Ser Tyr Ala Leu Gly Ile Met Leu Ile Thr Met Ile Asn Asn Ile Ile 465 470 475 480
- Pro Phe Ile Asp Ser Cys Asn Thr Asp Ala Arg Phe Arg Glu Phe Glu 485 490 495
- Val Ser Tyr Asp Asn Phe Ile Asn His Gln Asn Pro His Phe Arg Asp 500 505 510
- Lys Gly Cys His Lys Pro Gly Pro Gly Ser Glu Tyr Ser Leu Ala Arg 515 520 525

- Asn Phe Lys Asn Thr Asp Ala Thr Arg Ile Ala Trp Arg Leu Ala Asp 530 535 540
- Pro Asn Pro Ala Thr Arg Tyr Thr Met Asp Asp Leu Phe Asn Asp Pro 545 550 555 560
- Phe Phe Gln Gln Ile Glu Thr Cys Val Glu Pro Asn Asp Asp Leu
  565 570 575
- Val Arg Val Pro Glu Leu Arg Lys Ser Thr Ser Thr Asn Asp Phe Ser 580 585 590
- Glu Asn Ser Leu Asp Ala Pro His Asp Gln Glu Val Ile His Thr Ser 595 600 605
- Asn Pro Phe Leu Lys Lys Glu Thr Leu Thr Ser Lys Pro Arg Ser Met 610 620
- Leu Glu Ile Ala Glu Ser Pro Ser Leu Lys Gln Lys Ser Lys Val Lys 625 630 635 640
- Asp Ser Ala Lys Thr Lys Thr His Asp Val Gly Asp Glu Gly Gly Asn 645 650 655
- Glu Ser Thr Lys Pro Lys Gln Gln Asp Lys Lys Glu Asn Leu Lys Lys 660 665 670
- Asp Glu Val Lys Asn Gly Asp Lys Asp Lys Val Ile Glu Glu Ala Thr 675 680 685
- Thr Thr Asn Val Asp Ser Ile Leu Glu Lys Pro Thr Pro Thr Ser Thr 690 695 700
- Lys Val Glu Asp Asn Leu Ser Glu Asp Asp Ser Thr Met Lys Glu Leu 705 710 715 720
- Lys Ser Met Leu Asn Ser Thr Pro Thr Thr Pro Thr His Asn Gly Pro
  725 730 735
- Thr Pro Leu Pro Ala Lys Ala Gly Thr Gln Leu Asp Lys Arg Met Ser 740 745 750
- Asp Leu Ser Leu Lys Ser Glu Thr Pro Ala Ser Thr Lys Asn Phe Ser 755 760 765
- Ala Pro Asn Val Ser Ser Ser Ser Asn Ser Leu Arg Ser Leu Gly Ser 770 775 780
- Pro Ser Val Ser Ser Ser Lys Lys Lys Val Ile His His Leu 785 790 795 800
- Asp Ile Thr Asn Ser Val Thr Asn Met Ser Ser Val Ser Ala Phe Ile 805 815

Ser Arg

- <210> 36
- <211> 603
- <212> PRT
- <213> Saccharomyces cerevisiae
- <400> 36
- Met Thr Gly Met Asn Asp Asn Asn Ala Ala Ile Pro Gln Gln Thr Pro 1 5 10 15
- Arg Lys His Ala Leu Ser Ser Lys Val Met Gln Leu Phe Arg Ser Gly 20 25 30
- Ser Arg Ser Ser Arg Gln Gly Lys Ala Ser Ser Asn Ile Gln Pro Pro 35 40 45
- Ser Asn Ile Asn Thr Asn Val Pro Ser Ala Ser Lys Ser Ala Lys Phe 50 55 60
- Gly Leu His Thr Pro Thr Thr Ala Thr Pro Arg Val Val Ser Asn Pro 65 70 75 80
- Ser Asn Thr Ala Gly Val Ser Lys Pro Gly Met Tyr Met Pro Glu Tyr 85 90 95
- Tyr Gln Ser Ala Ser Pro Ser His Ser Ser Ser Ser Ala Ser Leu Asn 100 105 110
- Asn His Ile Asp Ile Asn Thr Ser Lys Ser Ser Ser Ala Ala Ser Leu 115 120 125
- Thr Ser Ser Val Ser Ala Leu Ser Leu Ser Pro Thr Ser Ala Ile Asn 130 135 140
- Ile Ser Ser Lys Ser Leu Ser Pro Lys Phe Ser His His Ser Asn Ser 145 150 155 160
- Asn Thr Ala Ile Thr Pro Ala Pro Thr Pro Thr Ala Ser Asn Ile Asn 165  $\phantom{\bigg|}$  170  $\phantom{\bigg|}$  175
- Asn Val Asn Lys Ile Thr Asn Thr Ser Ala Pro Ile Cys Gly Arg Phe 180 185 190
- Leu Val His Lys Asp Gly Thr His Glu His His Leu Lys Asn Ala Lys 195 200 205
- Arg Gln Glu Lys Leu Ser Thr Met Ile Lys Asn Met Val Gly Ala Ser 210 215 220
- Lys Leu Arg Gly Glu Ala Lys Ser Ala Val Pro Asp Ile Ile Met Asp 225 230 235 240
- Pro Lys Thr Thr Leu Lys Ser Asn Lys Asn Pro Pro Thr Leu Phe Ala 245 250 255
- Gly Phe Met Lys Gln Val Val Asp Met Asp Asp Lys Tyr Pro Glu Gly 260 265 270

- Ala Pro Thr Ser Gly Ala Leu Asn Cys Pro Glu Arg Asp Ile Tyr Arg 275 280 285
- Ser Asp Gln Lys Asp Ser Lys Asn Asn Thr His Asn Ile Thr Thr 290 295 300
- Lys Lys Asp Arg Gln Cys Phe Ala Glu Lys Tyr Gly Arg Cys Gln Glu 305 310 315 320
- Val Leu Gly Lys Gly Ala Phe Gly Val Val Arg Ile Cys Gln Lys Lys 325 330 335
- Asn Val Ser Ser Gln Asp Gly Asn Lys Ser Glu Lys Leu Tyr Ala Val
- Lys Glu Phe Lys Arg Arg Thr Ser Glu Ser Ala Glu Lys Tyr Ser Lys 355 360 365
- Arg Leu Thr Ser Glu Phe Cys Ile Ser Ser Leu His His Thr Asn 370 375 380
- Ile Val Thr Thr Leu Asp Leu Phe Gln Asp Ala Lys Gly Glu Tyr Cys 385 390 395 400
- Glu Val Met Glu Tyr Cys Ala Gly Gly Asp Leu Phe Thr Leu Val Val 405 410 415
- Ala Ala Gly Lys Leu Glu Tyr Met Glu Ala Asp Cys Phe Phe Lys Gln 420 425 430
- Leu Ile Arg Gly Val Val Tyr Met His Glu Met Gly Val Cys His Arg
  435
  440
  445
- Asp Leu Lys Pro Glu Asn Leu Leu Thr His Asp Gly Val Leu Lys 450 , 455 460
- Ile Thr Asp Phe Gly Asn Ser Glu Cys Phe Lys Met Ala Trp Glu Lys 465 470 475 480
- Asn Ile His Leu Ser Gly Gly Val Cys Gly Ser Ser Pro Tyr Ile Ala 485 490 495
- Pro Glu Glu Tyr Ile Lys Glu Glu Phe Asp Pro Arg Pro Val Asp Ile 500 505 510
- Trp Ala Cys Gly Val Ile Tyr Met Ala Met Arg Thr Gly Arg Gln Leu 515 520 525
- Trp Ser Ser Ala Glu Lys Asp Asp Pro Phe Tyr Met Asn Tyr Leu Lys 530 540
- Gly Arg Lys Glu Lys Gly Gly Tyr Glu Pro Ile Glu Ser Leu Lys Arg 545 550 560
- Ala Arg Cys Arg Asn Val Ile Tyr Ser Met Leu Asp Pro Val Pro Tyr
  565 570 575

Arg Arg Ile Asn Gly Lys Gln Ile Leu Asn Ser Glu Trp Gly Arg Glu
580 585 590

Ile Lys Cys Cys His Asn Gly Arg Ala Leu Lys 595 600

<210> 37

<211> 620

<212> PRT

<213> Saccharomyces cerevisiae

<400> 37

Met Val Lys Glu Thr Pro Leu His Ser Ser Ser Ser Thr Ser Leu Ser 1 5 10 15

Ser Leu Phe Arg Pro Thr Lys Leu Lys Asn Leu Ser Ala Lys Ile Phe 20 25 30

Asn Gly Gly Asn Gln Ser Tyr Ser Lys Thr Asp Asp Val Ser Arg
35 40 45

Ser Ser Ser Arg Ser Ser Lys Lys Asn Thr Asp Ser Asp Gln Glu Asp 50 55 60

Gln Ile Lys Tyr Asn Lys Pro Asn Asp Arg Arg Ser Thr Ile Gly Lys 65 70 75 80

Ser Pro Gln Gly Asn Gly Ala Leu Ser Lys Glu Ser His Val Val Ala 85 90 95

Ser Ser Thr Leu Thr Gly Ile Ser Pro Thr Ser Ala Lys Lys Ala Pro 100 105 110

Ile Asp Tyr Ser Pro Ser Arg Pro Leu Pro Asn Asn His Asn Pro Val 115 120 125

Arg Thr Gly His Thr Val Pro His Leu Pro His Ser Ile His Asn Pro 130 135 140

Ile Asn Tyr Ile His Gln Gly Ser Lys Asp Ala Phe His His Pro His 145 150 155 160

Pro Val Arg Ser Thr Ala His Ser Asn Ile Ser Thr Val Ser Ser Ala 165 170 175

Lys Ser Asp Thr Pro Ser Ser Asn Leu Ser Tyr Gln Ala His Met His
180 185 190

Pro Val Glu Ile Leu Gln Lys Gln Ile Glu Asp Lys His Phe Met Asp 195 200 205

Ser Gln Ala Ser Thr Pro Gly Ser Val Glu Leu Gln His Asn Ser Ser 210 215 220

Ser Gly Ser Asp Asp Thr Ser Ser Arg Lys Lys Ser Leu Arg Leu 225 230 235 240

- Thr Arg Phe Phe Lys Lys Ile His Asn Asp Tyr His Asp Asn His His 245 250 255
- His His His His Asn Arg Gly Ser Thr Pro Thr Lys Pro Lys Leu 260 265 . 270
- Asn Leu Asn Thr Asn Glu Asn Ile Val Glu Ser Asn Gly Lys Ala Leu 275 280 285
- Tyr Glu Thr Asp Asn Pro Val Glu Leu Leu Glu Lys Tyr Gly Ile Pro 290 295 300
- Gly Arg Lys Leu Gly Glu Gly Ala Ser Gly Ser Val Ser Val Glu 305 310 315 320
- Arg Thr Asp Gly Lys Leu Phe Ala Cys Lys Met Phe Arg Lys Pro His 325 330 335
- Leu Asn Asn Glu Gly Thr Asn Gln Ser Gln Leu Ala Asn Tyr Ser Lys 340 345 350
- Lys Val Thr Thr Glu Phe Cys Ile Gly Ser Thr Leu His His Glu Asn 355 360 365
- Ile Val Glu Thr Leu Asp Met Leu Thr Glu Gly Asp Thr Tyr Leu Leu 370 375 380
- Val Met Glu Tyr Ala Pro Tyr Asp Phe Phe Asn Leu Val Met Ser Asn 385 390 395 400
- Leu Met Thr Gln Asp Glu Val Asn Cys Tyr Phe Lys Gln Leu Cys His
  405 410 415
- Gly Val Asn Tyr Leu His Ser Met Gly Leu Ala His Arg Asp Leu Lys 420 425 430
- Leu Asp Asn Cys Val Val Thr Lys Asp Gly Ile Leu Lys Leu Ile Asp 435 440 445
- Phe Gly Ser Ala Val Val Phe Gln Tyr Pro Tyr Glu Asp Thr Ile Val 450 455 460
- Lys Ser His Gly Ile Val Gly Ser Asp Pro Tyr Leu Ala Pro Glu Leu 465 470 475 480
- Leu Lys Gln Thr Ser Tyr Asp Pro Arg Val Ala Asp Val Trp Ser Ile 485 490 495
- Ala Ile Ile Phe Tyr Cys Met Val Leu Lys Arg Phe Pro Trp Lys Ala 500 505 510
- Pro Lys Lys Ser Phe Asn Ser Phe Arg Leu Phe Thr Glu Glu Pro Glu 515 520 525
- Asp Glu Asp Asp Ile Val Arg Gly Pro Asn Lys Ile Leu Arg Leu Leu 530 540

Pro Arg His Ser Arg Thr Ile Ile Gly Arg Met Leu Ala Leu Glu Pro 545 550 560

Lys Gln Arg Val Leu Met Asn Asp Val Val Lys Asp Asp Trp Leu Val 565 570 575

Ser Val Pro Ser Cys Glu Val Asp Pro Thr Ser Gly Asp Leu Val Glu 580 585 590

Lys Pro Lys Asn His Lys His His Leu Val Thr Glu Glu Glu Leu Asn 595 600 605

Glu Leu Thr Lys Gln His Gly Asn Lys Asp Ser Asn 610 615 620

<210> 38

<211> 759

<212> PRT

<213> Saccharomyces cerevisiae

<400> 38

Met Pro Asn Leu Leu Ser Arg Asn Pro Phe His Gly His His Asn Asp 1 5 10 15

His His Asp Arg Glu Asn Ser Ser Asn Asn Pro Pro Gln Leu Ile 20 25 30

Arg Ser Ser Lys Ser Phe Leu Asn Phe Ile Gly Arg Lys Gln Ser Asn 35 40 45

Asp Ser Leu Arg Ser Glu Lys Ser Thr Asp Ser Met Lys Ser Thr Thr 50 55 60

Thr Thr Thr Asn Tyr Thr Thr Thr Asn Leu Asn Asn Asn Thr His Ser 65 70 75 80

His Ser Asn Ala Thr Ser Ile Ser Thr Asn Asn Tyr Asn Asn Asn Tyr 85 90 95

Glu Thr Asn His His His Asn Ile Ser His Gly Leu His Asp Tyr Thr
100 105 110

Ser Pro Ala Ser Pro Lys Gln Thr His Ser Met Ala Glu Leu Lys Arg 115 / 120 125

Phe Phe Arg Pro Ser Val Asn Lys Lys Leu Ser Met Ser Gln Leu Arg 130 135 140

Ser Lys Lys His Ser Thr His Ser Pro Pro Pro Ser Lys Ser Thr Ser 145 150 155 160

Thr Val Asn Leu Asn Asn His Tyr Arg Ala Gln His Pro His Gly Phe
165 170 175

Thr Asp His Tyr Ala His Thr Gln Ser Ala Ile Pro Pro Ser Thr Asp 180 185 190

- Ser Ile Leu Ser Leu Ser Asn Asn Ile Asn Ile Tyr His Asp Asp Cys 195 200 205
- Ile Leu Ala Gln Lys Tyr Gly Lys Leu Gly Lys Leu Gly Ser Gly 210 215 220
- Ala Gly Gly Ser Val Lys Val Leu Val Arg Pro Thr Asp Gly Ala Thr 225 230 235 240
- Phe Ala Val Lys Glu Phe Arg Pro Arg Lys Pro Asn Glu Ser Val Lys 245 250 255
- Glu Tyr Ala Lys Lys Cys Thr Ala Glu Phe Cys Ile Gly Ser Thr Leu 260 265 270
- His His Pro Asn Val Ile Glu Thr Val Asp Val Phe Ser Asp Ser Lys 275 280 285
- Gln Asn Lys Tyr Tyr Glu Val Met Glu Tyr Cys Pro Ile Asp Phe Phe 290 295 300
- Ala Val Val Met Thr Gly Lys Met Ser Arg Gly Glu Ile Asn Cys Cys 305 310 315 320
- Leu Lys Gln Leu Thr Glu Gly Val Lys Tyr Leu His Ser Met Gly Leu 325 330 335
- Ala His Arg Asp Leu Lys Leu Asp Asn Cys Val Met Thr Ser Gln Gly 340 345 350
- Ile Leu Lys Leu Ile Asp Phe Gly Ser Ala Val Val Phe Arg Tyr Pro 355 360 365
- Phe Glu Asp Gly Val Thr Met Ala His Gly Ile Val Gly Ser Asp Pro 370 375 380
- Tyr Leu Ala Pro Glu Val Ile Thr Ser Thr Lys Ser Tyr Asp Pro Gln 385 390 395 400
- Cys Val Asp Ile Trp Ser Ile Gly Ile Ile Tyr Cys Cys Met Val Leu 405 410 415
- Lys Arg Phe Pro Trp Lys Ala Pro Arg Asp Ser Asp Asp Asn Phe Arg 420 425 430
- Leu Tyr Cys Met Pro Asp Asp Ile Glu His Asp Tyr Val Glu Ser Ala
  435
  440
  445
- Arg His His Glu Glu Leu Leu Lys Glu Arg Lys Glu Lys Arg Gln Arg 450 460
- Phe Leu Asn His Ser Asp Cys Ser Ala Ile Asn Gln Gln Gln Pro Ala 465 470 475 480
- His Glu Ser Asn Leu Lys Thr Val Gln Asn Gln Val Pro Asn Thr Pro
  485 490 495

Ala Ser Ile Gln Gly Lys Ser Asp Asn Lys Pro Asp Ile Val Glu Glu 500 505 510

Glu Thr Glu Glu Asn Lys Glu Asp Asp Ser Asn Asn Asp Lys Glu Ser 515 520 525

Thr Pro Asp Asn Asp Lys Glu Ser Thr Ile Asp Ile Lys Ile Ser Lys 530 535 540

Asn Glu Asn Lys Ser Thr Val Val Ser Ala Asn Pro Lys Lys Val Asp 545 550 555 560

Ala Asp Ala Asp Cys Asp Ala Asn Gly Asp Ser Asn Gly Arg
565 570 575

Val Asp Cys Lys Ala Asn Ser Asp Cys Asn Asp Lys Thr Asp Cys Asn 580 585 590

Ala Asn Asn Asp Cys Ser Asn Glu Ser Asp Cys Asn Ala Lys Val Asp 595 600 605

Thr Asn Val Asn Thr Ala Ala Asn Ala Asn Pro Asp Met Val Pro Gln 610 615 620

Gln Gln Gln Gln Gln Gln His His His Gln His Gln Asn Gln
645 650 655

Asp Lys Ala His Ser Ile Ala Ser Asp Asn Lys Ser Ser Gln Gln His 660 665 670

Arg Gly Pro His His Lys Lys Ile Ile His Gly Pro Tyr Arg Leu Leu 675 680 685

Arg Leu Leu Pro His Ala Ser Arg Pro Ile Met Ser Arg Ile Leu Gln 690 695 700

Val Asp Pro Lys Lys Arg Ala Thr Leu Asp Asp Ile Phe Asn Asp Glu
705 710 715 720

Trp Phe Ala Ala Ile Ala Ala Cys Thr Met Asp Ser Lys Asn Lys Val 725 730 735

Ile Arg Ala Pro Gly His His His Thr Leu Val Arg Glu Glu Asn Ala
740 745 750

His Leu Glu Thr Tyr Lys Val

<210> 39

<211> 636

<212> PRT

<213> Schizosaccharomyces pombe

<400> 39

Met Gly Glu Lys Asp Lys Leu His Glu Ile Ser Ser Lys Phe Ala Ser 1 5 10 15

Leu Gly Leu Gly Ser Leu Lys Ser Thr Pro Lys Ala Arg Glu Thr Thr 20 25 30

Glu Pro Pro Pro Pro Ser Ser Gln Gln Pro Pro Ser Thr Pro Asn Gly 35 40 45

Lys Glu Ala Ala Ser Pro Ser Ala Leu Lys Gln Asn Val Arg Pro Ser 50 55 60

Leu Asn Ser Val Gln Gln Thr Pro Ala Ser Ile Asp Ala Val Ala Ser 65 70 75 80

Ser Ser Asn Val Ser Leu Gln Ser Gln Gln Pro Leu Ser Lys Pro Val 85 90 95

Val Ser Ser Lys Pro Asn Gln Thr Thr Ala Met Pro Pro Pro Ser Asn 100 105 110

Asn Pro Ser Arg His Val Ser Ser Thr Ser Asn Lys Pro Ala Ala Val 115 120 125

Ser Pro Asn Pro Ala Ala His His Ala Glu Leu Pro Ser Gly Ser Val 130 135 140

Pro Pro Ser Ala Ser Val Ser Arg Ala Asn Ser Thr Ala Thr Thr 145 150 155 160

Pro His Lys Ala Gly Val Val Ser Asn Pro Ala Ala Ala Asn Val His
165 170 175

Val Leu Ser Val Ala Ala Ser Pro Asn Pro Ser Thr Pro Ser Asn Gly
180 185 190

Pro Ala Pro Val Ser Thr Thr Ala Thr Pro Ser Arg Asn Pro Val Thr 195 200 205

Arg Leu Gln Arg Ile Phe Ser Gln Asn Ser Val Ser Arg Gln Asn Ser 210 215 220

Arg Thr Gly Arg Gly Ala Ala Val Ala Asn Thr Glu Glu Thr Asn Ser 225 230 235 240

Thr Gly Gly Ser Glu Thr Gly Gly Ala Ala Asn Ser Ser Ser Thr Ser 245 250 255

Asn Pro Ser Ser Ala Lys Trp Ser Arg Phe Thr Val Tyr Asp Asp Ala 260 265 270

Ser His Thr His Gln Leu Arg Pro Ala Arg Arg Gln Glu Lys Leu Gly 275 280 285

Lys Met Leu Lys Asp Phe Leu Ala Gly Asn Ser Lys Lys Arg Glu Glu 290 295 300

- Glu Arg Ile Ala Lys Glu Ala Ala Asp Ala Gln His Gln Leu Ser Leu 305 310 315 320
- Val Gln Ser Trp Ile Asn Gly Tyr Gly Gln Glu Lys Leu Ala Asp Lys
  325 330 335
- Lys Asp Pro Ala Lys Val Ser Ala Ser Phe Val Glu Lys Tyr Gly Arg
- Cys Gln Glu Val Ile Gly Arg Gly Ala Phe Gly Val Val Arg Ile Ala 355 360 365
- His Lys Val Asp Pro Gln Asn Ser Gly Ser Glu Thr Leu Tyr Ala Val
- Lys Glu Phe Arg Arg Lys Pro Ala Glu Ser Gln Lys Lys Tyr Thr Lys 385 390 395 400
- Arg Leu Thr Ser Glu Phe Cys Ile Ser Ser Ser Leu Arg His Pro Asn 405 410 415
- Val Ile His Thr Leu Asp Leu Ile Gln Asp Gly Lys Gly Asp Tyr Cys
  420
  430
- Glu Val Met Glu Leu Cys Ser Gly Gly Asp Leu Tyr Thr Leu Ile Met 435 440 445
- Ala Ala Gly Arg Leu Glu Pro Met Glu Ala Asp Cys Phe Phe Lys Gln 450 460
- Leu Met Arg Gly Val Asp Tyr Leu His Asp Met Gly Val Ala His Arg 465 470 475 480
- Asp Leu Lys Pro Glu Asn Leu Leu Leu Thr Val Ser Gly Ser Leu Lys 485 490 495
- Ile Thr Asp Phe Gly Asn Gly Glu Cys Phe Arg Met Ala Trp Glu Lys 500 505 . 510
- Glu Ala His Met Thr Cys Gly Leu Cys Gly Ser Ala Pro Tyr Ile Ala 515 520 525
- Pro Glu Glu Tyr Thr Glu Ser Glu Phe Asp Pro Arg Ala Val Asp Val 530 540
- Trp Ala Cys Gly Val Ile Tyr Met Ala Met Arg Thr Gly Arg His Leu 545 550 555 560
- Trp Arg Val Ala Lys Lys Ser Glu Asp Glu Tyr Tyr Ser Arg Tyr Leu 565 570 575
- Met Asp Arg Lys Asn Glu Ser Gly Tyr Glu Pro Ile Glu Met Leu Glu 580 585 590
- Arg Ser Arg Cys Arg Asn Thr Leu Tyr Asn Ile Leu His Pro Asn Pro 595 600 605

Thr Tyr Arg Leu Thr Ala Lys Gln Ile Met Lys Ser Glu Trp Val Arg 610 620

Ser Ile Thr Leu Cys Glu Ala Gly Asn Ala Gly Leu 625 630 635

<210> 40

<211> 650

<212> PRT

<213> Schizosaccharomyces pombe

<400> 40

Met Ser Val Thr Pro Pro Asn Val Gln Phe Asn Leu Asn Gly Asp Ser 1 5 10 15

Asp His Lys Ser Asp Asn Ser Ser Ser Ser Leu Glu Asn Lys Leu Asp 20 25 30

Thr Glu Leu Lys Ile Thr Ser Pro Pro Arg Asn Pro Pro Gln Arg Leu
35 40 45

His Pro Val Asp Phe Ser Glu His Ala Asp Thr Asp Asp Met Asn 50 55 60

His Pro Leu Pro Arg Val Gln Ser Pro Val His Ile Lys Asn His Ile 65 70 75 80

Asp Pro Lys Leu Ala Glu Asp Arg Tyr Arg Ser Ser Ala Ala Arg His
85 90 95

Phe Glu Pro Ile Ser Ile Pro Pro Ser Ala Ile Thr Ser Glu Asp Glu
100 105 110

Asp Asp Tyr His Gly Ser Ala Asn Ser Ser Thr Val Leu Pro Pro Arg 115 120 125

Thr Glu Asn Ala Leu His Ala Ala Ser Pro Lys Pro Ser Gly Ser Thr 130 135 140

Gly Tyr Thr Ser Pro Ala Leu Ser Gln Asn Ser Gly Ser Gly Glu 145 150 155 160

Gly Glu Ser Asp Glu Gly Ser Phe Asn Thr Gln His His Arg Ser Pro 165 170 175

Ile Phe Gln Ala Tyr Pro Ser Ser Glu Asp Leu Val Gly Asp Pro Asn 180 185 190

Asp Pro Tyr Arg Arg Thr Arg Arg Ala Pro Ile Lys Thr Asn Pro His
195 200 205

Asp Ile Pro Ser Gln Phe Ile Phe Arg Lys Leu Gly Leu His His Gly 210 215 220

Lys His Gly His His Gly His Ser Gly Ser Leu Ser Leu Lys Ser Leu 225 230 235 240

- Val Pro Asn His His Asp Lys His Asp Lys His Asp Lys His Glu Lys
  245 250 255
- His His Ser Ser Leu Asp Leu Arg Phe Phe Lys Ser His Gln Lys
  260 265 270
- Thr Asp Lys Glu Lys Lys Pro Ser Val Ser Lys Ser Lys Ser Ser Ala 275 280 285
- Asn Leu Gln Asp Asp His Phe Gly Leu Phe Lys Lys Tyr Gly Lys Phe 290 295 300
- Gly Arg Met Leu Gly Ser Gly Ala Gly Gly Ser Val Arg Ile Met Lys 305 310 315 320
- Arg Ser Ser Asp Gly Lys Ile Phe Ala Val Lys Glu Phe Arg Ala Arg 325 330 335
- Arg Pro Thr Glu Thr Glu Arg Glu Tyr Ala Arg Lys Val Thr Ala Glu 340 345 350
- Phe Cys Ile Gly Ser Ala Leu His His Thr Asn Ile Ile Glu Thr Leu 355 360 365
- Asp Ile Val Glu Glu Asn Lys Lys Phe Tyr Glu Val Met Glu Tyr Ala 370 375 380
- Pro Tyr Asp Met Phe Ser Ile Val Met Ser Gly Lys Met Thr Met Pro 385 390 395 400
- Glu Val Tyr Cys Cys Phe Lys Gln Leu Leu Ser Gly Val Ala Tyr Leu 405 410 415
- His Ser Met Gly Leu Ala His Arg Asp Leu Lys Leu Asp Asn Leu Val 420 425 430
- Val Asp Ser Asn Cys Phe Val Lys Ile Ile Asp Phe Gly Ser Ala Val 435 440 445
- Val Phe Lys Tyr Pro Phe Glu Ala Asp Ile Val Glu Ala Thr Gly Val 450 455 460
- Val Gly Ser Asp Pro Tyr Leu Ala Pro Glu Thr Leu Val Arg Lys Leu 465 470 475 480
- Tyr Asp Pro Arg Ala Val Asp Ile Trp Ser Ser Ala Ile Ile Phe Cys 485 490 495
- Cys Met Ala Leu Arg Arg Phe Pro Trp Lys Tyr Pro Lys Leu Ser Asp 500 505 510
- Asn Ser Phe Arg Leu Phe Cys Met Lys Gln Pro Ser Asn Asp Ala Glu 515 520 525
- Ser Pro Ser Asp Ile Leu Ala Asp Ile Lys Lys Gln Arg Leu Val Glu 530 540

Gln Gly Cys Glu Pro Ile Arg Lys Thr Asp Glu Ser His Ser Pro Asn 545 550 555 560

Ser Lys Thr Asp Asn Ser Ser Thr His Lys Gln Glu Leu Tyr Gly Pro
565 570 575

Trp Arg Leu Leu Arg Leu Leu Pro Arg Glu Thr Arg Ala Val Ile Ala 580 585 590

His Met Leu Glu Leu Asp Pro Val Lys Arg Tyr Asp Ile His Arg Val 595 600 605

Phe Ala Asp Asn Trp Ile Asn Asp Ile Ser Met Cys His Met Glu Asn 610 620

Gly Lys Val Ile His Ser Pro Thr His Val His Asn Leu Val Ala Ser 625 630 635 640

Glu Glu Ser Pro Ala Pro Pro Ala Lys His 645 650

<210> 41

<211> 812

<212> PRT

<213> Candida albicans

<400> 41

Met Thr Lys Glu His Ser Ile Arg Asn Ile Phe Lys Lys Asp Lys Thr 1 5 10 15

Pro Asp Asn Gly Ser Ala Thr Ala Thr Pro Ser Ser Ser His Thr Gly
20 25 30

Leu Ser Lys Leu Phe His Lys Glu Ser Lys Pro Ile Thr Pro Pro Met 35 40 45

Lys Arg Thr Pro Ser Val Ser Ser Leu Lys Arg Arg Asn Thr Asn Pro 50 55 60

Ser Gln Thr Ser Gly Ile Ser Leu Asn His Asn His His His Gln 65 70 75 80

Asp Ser Gln Asn His Asn Asp Ala Thr Thr Ser Gly Gly Asn Ile His
85 90 95

Ser Ser Thr Pro Val Asn Arg Ser Arg Ser Asn Ser Asp Arg Leu Gly
100 105 110

His Val Pro Pro Thr Gly Arg Lys Val Leu Ser Lys Ala Glu Thr Phe 115 120 125

Thr His Leu Gln Gln Leu Asp Thr Arg Asn Ala Ala Lys Asn Gln Leu 130 135 140

Arg Asn His Arg Ile Pro Ser Asn His Leu Ser Ser Pro Leu Ser Ala 145 150 155 160

- Ala Pro His Ser Asp Lys Ile Val Tyr Asn Pro Tyr Gly Leu Asn Lys 165 170 175
- Thr Ala Thr Glu Arg Pro Lys Asn Thr Ser Phe Tyr Leu Ser Gly
  180 185 190
- Val Asn Asp Gly Glu Arg Val Leu Ser Asn Pro Val Ala Ser Pro Asn 195 200 205
- Asp Tyr Leu Pro Ala Glu Leu Gln Gln His Val Asn Leu Leu Glu 210 215 220
- Asp Phe Glu Ile Asp Val Gly Thr Lys Lys Leu Gly Asp Gly Gly Ser 225 230 235 240
- Ser Asp Val Arg Ile Ile Asn Ser Cys His His Lys Lys Asp Leu Tyr 245 250 255
- Ala Leu Lys Lys Phe Thr Leu Leu Ser Lys Glu Thr Asp Glu Asp Phe 260 265 270
- Tyr Lys Arg Val Ser Glu Glu Tyr Lys Ile His Arg Lys Ala Ala Ile 275 280 285
- Ser Arg His Val Val Asp Ala Phe Ala Ile Leu Arg Ile Gln Ser Gln 290 295 300
- Ser Asn Leu Thr Arg Gly Trp Gly Met Val Met Glu Phe Cys Gly Gly 305 310 315 320
- Gly Asp Leu Phe Ser Val Ile Val Lys Pro Gly Trp Lys Ser Thr Pro 325 330 335
- Leu Ala Glu Lys Tyr Cys Leu Phe Lys Gln Ile Ala Tyr Gly Val Lys 340 345 350
- Phe Leu His Asp His Asp Ile Val His Arg Asp Leu Lys Pro Glu Asn 355 360 365
- Val Leu Leu Asp Ala Asn Gly Leu Ala Lys Leu Cys Asp Phe Gly Val 370 375 380
- Ser Glu Phe Gly His Glu Val Pro Glu Asp Phe Ser Ser Pro Val Lys 385 390 395 400
- Leu Ser Thr Ala Tyr Val Gly Ser Pro Pro Tyr Ala Pro Pro Glu Val
  405 410 415
- Met Leu Leu Lys Glu Lys Ser Ser Thr Glu Ile Lys Ala Phe Ala Tyr 420 425 430
- Asp Pro Phe Lys Met Asp Cys Trp Gly Leu Gly Met Leu Leu Phe Cys
  435
  440
- Leu Val Tyr Gly Gly Val Pro Phe Gln Gln Ser Ser Pro Asn Asp His 450 455 460

- Ala Phe Arg Asp Tyr Lys Phe Ser His Lys Arg Phe Cys Thr Asp His 465 470 475 480
- His Thr Phe Lys Ser Asn Gln Gly Tyr Pro Arg Gly Pro Gly Ser Glu 485 490 495
- Phe Lys Leu Ala Ala Lys Phe Glu Asn Asn Gly Ala Ser Arg Val Ala 500 505 510
- Trp Lys Leu Cys Asp Pro Ser Glu Asn Thr Arg Tyr Thr Met Asp Met 515 520 525
- Leu Phe Asp Asp Pro Trp Phe Gln Ser Val Glu Met Cys Ile Tyr Glu
  530
  540
- Ser Pro Asp Gln Glu Val Asn Pro Phe Val Leu Pro Gly Thr Gly Glu 545 550 560
- Asn Ile Asp Thr His Ser Val Ser Gly Tyr Ser Ser Val Asn Asn Ser 565 570 575
- Gln Ala Pro Ser Arg Arg Gly Thr Phe Thr Ser Arg Pro Val Gly Ser 580 585 590
- Gly Ala Gly Ser Gly Tyr Asn Ser His Asp Glu Ser Ser Asn Gly Leu
  595 600 605
- Ser Ser Ser Phe Arg Ser Met Leu Asp Leu Lys Asp Ile Pro Gln Lys 610 615 620
- Ile Thr Lys Thr Asp Glu Pro Leu Pro Ser Asn Ser Ser Val His Ser625630635640
- Asn Asp Ser Ser Ser Ala Arg Ala Lys Ser Lys Leu Asp His Pro Ser 645 650 655
- Ser Pro Gly Ser Leu Leu Ser Pro Ser Thr Pro Ala Leu Gln Ser Ile 660 665 670
- Pro Ala Asp Arg Val Ala Gln Thr Thr Ser Pro Ile Asn Ala Ser Leu 675 680 685
- Pro Ala Val Glu Glu Ser Asp Ile Glu His Glu Ser Glu Ser Glu Ile 690 695 700
- Gln Gly Asp Glu Thr Glu Ser Ser Gly Leu Gln Val Leu Pro Pro Ile 705 710 715 720
- Asp Asp Val Val Ala Ala Ser Pro Ser Ser Leu Thr His Glu Pro Gln
  725 730 735
- Glu Gln Val Leu Asp Ser Val Glu Ser Cys Ile Ser Leu Pro Pro Asn 740 745 750
- Arg Asp Gln Ala Phe Ala Gly Lys Asp Gly Glu Met Cys Ser Leu Val 755 760 765

Asp Leu Lys Pro Ala Ala Leu Lys Ser Ala Thr Asp Leu Gln Leu Gly 770 780

Ala Asp Gly Met Cys Asn Leu Gly Tyr Lys Ile Lys Lys His His 785 790 795 800

Thr Glu Val Ser Asn Val Ser Asn Ser Ser Arg Arg 805 810

<210> 42

<211> 800

<212> PRT

<213> Candida albicans

<400> 42

Met Ser Ser Leu Thr Lys Leu Leu His Glu Ser Thr Ser Thr Leu Ala 1 5 10 15

Ser Pro Val Leu Ser Arg Asn Thr Ser Glu Val Thr Phe Lys Asp Gln
20 25 30

Gly Arg Arg Thr Pro Glu Ile Leu Asn Ile Ser Asp Thr Val Asp Ala
35 40 45

Lys Ser Pro Gly Ile Thr Ile Asp Val Ser Lys Pro Lys Pro Ser Pro 50 55 60

Ile Asp Thr Asp Gly Met Asn Val Glu Pro Gln Ala Val His Gly Phe 65 70 75 80

Asp Pro Ser Pro Asn Thr Lys Val Ser Phe Ser Ser Pro Phe Ser Pro 85 90 95

Thr Ser Pro Phe Thr Arg Gln Ser Ser Asn Ser Phe Ser Ser Asn Gln
100 105 110

Ala Phe Gln Asn Thr Arg Gly Ala Val Ala Ser Pro Arg Tyr Ile Lys

Asn Asn Ser Val Ser His Ser Ser Val Phe Met Gly Glu Ser Leu 130 135 140

Ser Ser Ser Ile Pro Tyr Ser Ala Pro Gly Gly Gly Arg Gly Asn Pro 145 150 155 160

Ala Ser His Ser Gly Asn Thr Gly Ser Leu Gln Arg Glu Asn Ser Phe 165 170 175

Ser Ser Leu Asn Thr Ser Asp Ser Asn Ser Ser Ala His Ile Pro Asn 180 185 190

Leu Pro Asn Gly Gln Pro Ile Asn Ser Ile His Ile Gln Ser Pro Gln
195 200 205

Val Ser Ala Ser Ser Ile Asp Ser Arg Phe Val Val Ser Lys Gln Arg 210 215 220

- Ile Ala Gln Ala Gln Ala Gln Ala Ser Leu Ser Ser Gln Arg Ser 225 230 235 240
- Asn Ser Gln Ser Gly Leu Ser Phe Phe Phe Ser Gln Lys Ser Lys Pro
  245 250 255
- Ala Val Lys Arg Asp Ser Thr Thr Asp Leu Gly Ala Phe Tyr Asn Asn 260 265 270
- Ser Tyr Gln Asp Arg Asp Ala Pro Ile Val Ser Gly Ser Pro Asn Ser 275 280 285
- Leu Ser Ser Ala Glu Ser Thr Val Ser Tyr Gly Ser Ser Ala Pro Thr 290 295 300
- Arg His Asn Ser Met Ala Asn Leu Lys Arg Phe Phe Lys Lys Ser Thr 305 310 315 320
- Pro Thr Thr Ser Gln Pro Val Gly Thr Ser Asn Leu Ser Ser Leu 325 330 335
- Arg Ser Ala Ser Ser Gly Ala Ser Gly Ala Met Asn Ile Pro Asn Ser 340 345 350
- Leu Asn Gly Gln Thr Asn Asn Gly Tyr Gln Ser Pro Ser Ser Phe Ser 355 360 365
- Ala Ser Thr Ser Asn Thr Ser Tyr Ser Gln Ser Pro Gly Thr Asn Ser 370 375 380
- Ser Ser Val Thr Arg Ser Ser Thr Leu Gln Asn Lys Val Asn Tyr His 385 390 395 400
- Glu Arg Arg Gln Ser Val Ser Gly Ile Val Asn Asn Ser Gln Gln Leu
  405 410 415
- Pro Phe Ser Lys Arg Tyr His Ser Lys Asn Ala Glu Ser Leu Gly Ala
  420 425 430
- Gly Ala Gly Gly Ser Val Arg Leu Leu Thr Arg Val Ser Asp Gly Leu
  435
  440
  445
- Thr Phe Ala Val Lys Glu Phe Arg Ala Lys Tyr Gln Asn Glu Ser Lys 450 455 460
- Arg Asp Tyr Ala Lys Lys Ile Thr Gly Glu Tyr Cys Ile Gly Ser Thr 465 470 475 480
- Leu Lys His Pro Asn Ile Ile Glu Thr Val Glu Ile Cys Tyr Glu Asn
  485
  490
  495
- Glu Arg Ile His Gln Val Met Glu Tyr Cys Asp Phe Asp Leu Phe Ala 500 505 510
- Ile Val Met Ser Asn Lys Met Ser Arg Glu Glu Ile Asn Cys Cys Phe 515 520 525

Lys Gln Ile Leu Ala Gly Val His Tyr Leu His Ser Met Gly Leu Ala 530 535 540

His Arg Asp Leu Lys Leu Asp Asn Cys Val Ile Asp Lys Arg Gly Ile 545 550 555 560

Val Lys Ile Ile Asp Phe Gly Ser Ala Val Val Phe Ser Tyr Pro Phe 565 570 575

Thr Lys Thr Leu Ile Glu Ala Gln Gly Ile Val Gly Ser Asp Pro Tyr 580 585 590

Leu Ala Pro Glu Val Cys Val Phe Asn Lys Tyr Asp Pro Arg Pro Val
595 600 605

Asp Val Trp Ser Val Ala Ile Ile Tyr Cys Cys Met Met Leu Lys Lys 610 615 620

Phe Pro Trp Lys Val Pro Lys Leu Ser Asp Ser Ser Phe Lys Leu Phe 625 630 635 640

Ala Ser Arg Gly Glu Phe Ile Pro Ile Ser Glu Met Leu Lys Lys Thr
645 650 655

Pro Asn Asp Met Glu Lys Ser Asn Ser Asn Gly Ser Ser Gly Gly Gly 660 665 670

Leu Ser Asn Leu Glu Asp Ile Ser Glu Ala Leu Glu Asp Glu Ile Thr 675 680 685

Ala Gly Ala Lys Gln Lys Pro Ser Thr Thr Gly Gln Asn Gly Ala Thr 690 695 700

Ala Asn Gly Lys Asp His Thr Ser Ser Glu Thr Gly Ala Asn Arg Leu 705 710 715 720

Leu Leu Ala Leu Pro Glu Asp Cys Arg Arg Leu Ile Gly Arg Met Val 725 730 735

Glu Leu Ala Pro Ala Cys Arg Ile Thr Ile Asp Glu Val Leu Asn Asp
740 745 750

Ser Trp Leu Lys Ser Val Asn Met Cys Thr Val Glu Glu Ser Ser Pro 755 760 765

Gly Val Phe Glu Val Ile Lys Cys Glu Asp His Glu His Thr Gln Val 770 780

Asp Gln Ser Lys Ala His Ile Ala Ala Phe Glu Lys Asn Lys Lys 785 790 795 800